EAST RUTHERFORD STREET IMPROVEMENTS

TIB 6-P-801(007)-1

Contract Documents

CITY OF CARNATION

4621 Tolt Avenue

Carnation, Washington 98014-1238

PREPARED BY:
H.W. Lochner, Inc.
915 108th Avenue SE, Suite 130
Bellevue, Washington 98005
425-454-3160

June 2016

TABLE OF CONTENTS

APPENDICES

(*This page left blank intentionally*.)

BIDDER'S CHECKLIST

1. REQUIRED ITEMS

The Bidder shall submit the following required items, which must be executed in full and submitted with the Proposal.

		Complete
a.	Completed Bid Proposal	☐
b.	Proposal Signed	☐
c.	Statement of Bidder's Qualifications	☐
d.	Bid Bond or Bid Deposit	☐
e.	Non-Collusion Certificate	☐
f.	Subcontractors List	☐
g.	Statement of Addenda Received	☐
h.	Certificate of Registration provided by WA State Dept of Labor and Industries	☐
i.	WA State Dept of Licenses Contractor's Registration Number: _____	☐
j.	WA State Dept of Labor and Industries Workman's Comp Account Number: _____	☐
k.	Current State Unified Business Identifier (UBI) Number UBI Number: _____	☐
l.	Employment Security (ES) account number ES Number: _____	☐
m.	State excise tax registration number Number: _____	☐

BIDDER'S CHECKLIST

2. AGREEMENT FORMS

The following forms (a, b, c, d, e and f) are to be executed and provided after the Contract is awarded and prior to Notice to Proceed. Form (g) the Maintenance Bond shall be provided after the work is done and the Performance Bond is complete. Form (h) Affidavits of Wages Paid shall be provided by the Contractor as they become available by Department of Labor and Industries.

		Complete
a.	Contract Agreement (City form)	☐
b.	Performance Bond (City form)	☐
c.	Payment Bond (City form)	☐
d.	Certificate of Insurance (for Prime and all Subs)	☐
e.	Request to Sublet Work (City form) (if applicable)	☐
f.	Intent to Pay Prevailing Wages (LNI) (for Prime and all subs)	☐
g.	Maintenance Bond (City form)	☐
h.	Affidavit of Wages Paid (LNI) (for Prime and all subs)	☐

EAST RUTHERFORD STREET IMPROVEMENTS

CERTIFICATE OF ENGINEER

The Specifications and Plans were prepared under the supervision and direction of the undersigned whose seal, as professional engineer and licensed to practice as such, is affixed below.

Jorge Garcia, P.E.
Project Manager
City Engineer

June 2016

City of Carnation
4621 Tolt Avenue
Carnation, WA 98014-1238
(425) 333-4192

(*This page left blank intentionally*.)

INVITATION TO BIDDERS

The City of Carnation requests sealed bid proposals for construction of the East Rutherford Street Improvements. The work to be completed under this contract generally consists of but is not limited to the reconstruction of the existing street, construction of a bioswale, asphalt concrete sidewalk; and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.

Contract Documents, including plans, specifications, and price quotation proposal forms may be obtained in one of two ways:

1. **FREE OF CHARGE through the City of Carnation's on-line plan room (http://bxwa.com then click on "Posted Projects"; "Public Works"; "City of Carnation"; and "Projects Bidding").** Bidders may register in order to receive automatic email notification of future addenda and to be placed on the "Bidders List". This on-line plan room provides Bidders with fully usable on-line documents with the ability to download, print to your own printer, order full/partial plan sets from numerous reprographic sources (on-line print order form), and a free on-line digitizer/takeoff tool. Contact Builders Exchange of Washington at 425-258-1303 for assistance.

Phone inquiries regarding the project may be directed to Jorge Garcia P.E. at (425) 454-3160.

Sealed bid proposals will be received only at the office of the City Clerk, City of Carnation, 4621 Tolt Avenue, Carnation, Washington, 98014-1238, no later than **July 20, 2016 at 3:00PM**, and will then and there be publicly read aloud. Bid proposals received after the time fixed for opening will not be considered.

Time for project completed shall be in accordance with Section 1-08.5 of the Standard Specifications and as amended by the Special Provisions.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check, or surety bond in an amount equal to five percent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the contract documents, the bid proposal deposit shall be forfeited to the City of Carnation. No bidder may withdraw their bid proposal after the time fixed for opening thereof, or before award of contract, unless said award is delayed for a period exceeding thirty (30) days.

The City of Carnation reserves the right to reject any or all bids, and to waive minor irregularities in the bidding process. The City of Carnation reserves the right to award this contract to the lowest responsive, responsible bidder based on the Bid Proposal. In determining the lowest responsive, responsible bidder, consideration will be given to the criteria listed in Section 1-03 and RCW 39.04.

Published: Snoqualmie Valley Record
Daily Journal of Commerce
June 29, 2016 and July 6, 2016

NOTICE TO PROSPECTIVE BIDDERS

E. Rutherford Street Improvements Tolt Avenue to Spilman Avenue

Questions that are pertinent to bidding the contract and are not answered by information contained in the Standard Specifications, Contract Plans or Specifications, may be submitted via email to City of Carnation City Engineer jgarcia@hwlochner.com.

All emails must be received at least three days prior to the bid opening. The prospective bidder question(s) and the Engineer's response(s) (if any) will be addressed in an addendum and posted electronically to the Builder's Exchange web site for access by all prospective bidders prior to the bid opening.

BID PROPOSAL

FOR
EAST RUTHERFORD STREET IMPROVEMENTS

The undersigned hereby certifies that he/she has personally examined the details for this project and understands the methods by which payment will be made, and hereby proposes to supply the materials in accordance with the Plans, Specifications and Contract at the following schedule of rates and prices.

The work under this contract shall be fully completed within the days and timeline specified in the Special Provisions.

(Note: Show unit prices in figures only. Prices for all items, all extensions and total amount of bid must be shown. Any use tax shall be included in the bid unit prices. Incomplete bid schedules shall be considered non-responsive.)

Bid Schedule

ITEM No.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE (Incl. Tax)	EXTENDED AMOUNT (Incl. Tax)
1	Mobilization	LS	1	$	$
2	Clearing and Grubbing	LS	1	$	$
3	Removal of Structure and Obstruction	LS	1	$	$
4	Roadway Surveying	LS	1	$	$
5	Planing Bituminous Pavement	SY	240	$	$
6	Sawcutting Asphalt Pavement	LF	100	$	$
7	Roadway Repair	SY	80	$	$
8	Roadway Excavation including Haul	CY	770	$	$
9	Crushed Surfacing Base Course	TON	300	$	$
10	Crushed Surfacing Top Course	TON	530	$	$
11	HMA CL. 1/2 In. PG 64-22	TON	330	$	$
12	HMA CL. 1/2 In. PG 64-22 Pedestrian Path	TON	80	$	$
13	Temporary Erosion and Sedimentation Control	LS	1	$	$

14	Street Cleaning	HR	80	$	$
15	Sod Installation	SY	50	$	$
16	Bark or Wood Chip Mulch	CY	35	$	$
17	Washed Graded Course Sand	CY	90	$	$
18	Gravel Backfill for Drain	CY	90	$	$
19	Adjust Existing Valve Box	EA	4	$	$
20	Construction Geotextile for Separation	SY	870	$	$
21	Bioretention Soil Media	CY	190	$	$
22	PSIPE Golden Variegated Sweet Flag	EA	210	$	$
23	PSIPE New Zeland Hair Sedge	EA	210	$	$
24	PSIPE Variegated Japanese Sedge	EA	210	$	$
25	PSIPE Dwarf Red Twig Dogwood	EA	210	$	$
26	PSIPE Dwarf Nandina	EA	210	$	$
27	PSIPE Little Princess Spirea	EA	210	$	$
29	Topsoil, Type A	TON	60	$	$
30	Plastic Crosswalk Line	SF	192	$	$
31	Plastic Stop Line	LF	39	$	$
32	Permanent Signing	LS	1	$	$
33	Detectable Warning Surface	SF	40	$	$
34	Project Temporary Traffic Control	LS	1	$	$
35	Trimming and Cleanup	LS	1	$	$
36	36 In. Cedar Fence	LF	120	$	$
37	48 In. Cedar Fence	LF	154	$	$
38	Chain Link Fence Type 3	LF	32	$	$

39	Minor Change	EST	1	$10,000	$ 10,000
40	Roadside Cleanup	LS	1	$	$

Total Bid Amount: $_____

FIRM NAME: _____

(*This page left blank intentionally*.)

Proposal Signature

This certifies that the Undersigned: has carefully examined the project site, and the contract documents, including the plans and specifications, governing the work for the E. Rutherford Street Improvements, Tolt Avenue to Spilman Avenue; and thoroughly understands and is satisfied regarding the conditions to be encountered, the nature and extent of the work, and the method by which payment will be made for said work. The Undersigned agrees to execute a contract with the City of Carnation, and furnish bonds on City forms as bound herein and certificate of insurance; all in accordance with Section 1-03 of the Contract Documents.

The Undersigned further agrees to accept as payment for said work the schedule of prices as set forth in the bid proposal below, and as awarded by the City. This bid proposal is submitted with the specific understanding that: the prices are balanced; the unit, extended unit or lump sum price for each item includes all costs for labor, materials, tools, equipment, overhead, profit, and all applicable taxes; the item quantities herein are provided only to indicate the general character of the work and for comparing bid proposals; item quantities may be increased, decreased, or deleted at the City's sole discretion; and final payment will be based upon the actual work performed in accordance with the contract requirements.

The name of the respondent submitting this proposal, and with whom the Contract will be executed in case the award is made to the respondent, is:

_____ doing business at

_____

Street/P.O. Box City State Zip

Telephone No.: ( ) _____ - _____ Email Address: _____

All communications concerned with this proposal and with the Contract should be sent to the above address.

The names of the president, treasurer and manager of the responding corporation, or of all persons interested in this proposal as partners or principals, are as follows:

Name	Address

In Witness Hereto, the Undersigned has set his/her hand this _____ day of _____, 201__.

_____ _____

Signature of Corporate Officer/Partner/Principal

Printed Name and Title

State of Incorporation: _____

STATEMENT OF BIDDER'S QUALIFICATIONS

Name of Firm: _____

Address: _____

Telephone No. (_____) _____Fax No. (_____) _____

Contact Person for this Project: _____

Number of years the Contractor has been engaged in the construction business under the present firm name, as indicated above:

_____

Gross dollar amount of work currently under contract: _____

Gross dollar amount of contracts currently not completed: _____

General character of work performed by firm: _____

List of five major projects of a similar nature which have been completed by the Contractor within the last ten years and the gross dollar amount of each project, together with the Owner or City's name and phone number, and the Engineer's name:

Project Name	Amount	Owner	Phone	Engineer's Name

All contacts must be correct and valid. Non-reachable contacts shall be considered invalid. See Section 1-02 of the Special Provisions for bidder experience requirements.

List five major pieces of equipment which are anticipated to be used on this project by the Contractor and note which items are owned by the Contractor and which are to be leased or rented from others:

Bank Reference: _____

How many general superintendents or other responsible employees in a supervisory position do you have at this time, and how long have they been with the firm?

Identify who will be the general superintendent or project superintendent on this Project. Also list number of years with firm.

Have you changed bonding companies within the last three years? _____

If so, why? _____

Have you ever been sued or engaged in an arbitration by the City or have you ever sued or demanded arbitration from an Owner on any public works contract for a special utility district, private utility company, municipality, county or state government? _____

For what reason? _____

Disposition of case, if settled. _____

Do you have any outstanding payments due to the Department of Revenue? _____

If yes, explain. _____

Bidder agrees that the City shall retain the right to obtain any and all credit reports.

_____ Yes _____ No

The undersigned agrees that the City is authorized to obtain reports from all references included herein.

Sincerely,

_____
Print Company Name

By: _____
Print Name

_____
Sign Name

_____
Title

_____
Date

(*This page left blank intentionally*.)

ADDENDA RECEIVED

Addendum No.	Date Received	Name of Recipient

Sincerely,

_____
Print Company Name

By: _____
Print Name

_____
Sign Name

_____
Title

_____
Date

(*This page left blank intentionally*.)

DEPOSIT FOR BID BOND FORM - DEPOSIT STATEMENT

Herewith find deposit in the form of certified check, cashier's check or cash in the amount of $_____, which amount is not less than five percent of the total bid.

SIGN HERE_____

KNOW ALL PERSONS BY THESE PRESENTS:

That we, _____, as Principal, and _____, as Surety, are held firmly bound unto the City of Carnation, Washington, as Obligee, in the penal sum of _____ dollars and _____ cents ($_____), for the payment of which the successors and assigns, jointly and severally by these presents.

The condition of this obligation is such that if the Obligee shall make any award to the Principal for the work of the East Rutherford Street Imporvements, Carnation, Washington according to the terms of the proposal or bids made by the Principal therefore, and the Principal shall duly make and enter into a contract with the Obligee in accordance with the terms of said proposal or bid and award and shall give bond for the faithful performance thereof, with Surety or Sureties approved by the Obligee; or if the Principal shall, in case of failure to do so, pay and forfeit to the Obligee the penal amount of the deposit specified in the call for bids. Then this obligation shall be null and void; otherwise it shall be and remain in full force and effect and the Surety shall forthwith pay and forfeit to the Obligee, as penalty and liquidated damages, the amount of this bond.

SIGNED, SEALED AND DATED THIS ____ DAY OF _____, 201__.

_____
Principal

_____
Surety

_____, 201__

Received return of deposit in the sum of $_____

(*This page left blank intentionally*.)

NON-COLLUSION CERTIFICATE

EAST RUTHERFOR STREET IMPROVEMENTS

State of Washington)
)
County of)

The undersigned, being duly sworn, deposes says that the person, firm, association, co-partnership or corporation herein named, has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in the preparation and submission of a proposal to the City of Carnation for consideration in the award of a contract on the improvement described as follows:

East Rutherford Street Improvements
Name of Project

_____
Company Name

_____
Signature of Authorized Member

Signed and sworn to before me this

_____ Day of _____2013_.

_____
Notary Public

(*This page left blank intentionally*.)

SAMPLE PUBLIC WORKS CONTRACT

EAST RUTHERFORD STREET IMPROVEMENTS

THIS AGREEMENT, made and entered into, this ____ day of _____, 201_, by and between the City of Carnation, a Non-Charter Code city in the State of Washington, hereinafter called the "City", and _____, organized under the laws of the State of Washington, located and doing business at,_____ hereinafter called the "Contractor."

WITNESSETH:

That in consideration of the terms and conditions contained herein and attached and made a part of this Contract, the parties hereto covenant and agree as follows:

The Contractor shall do all of the work and furnish all of the labor, materials, tools, and equipment necessary to complete the work under this contract generally consisting of but is not limited to the widening of an existing roadway; construction of new curb & gutter and sidewalk; overlay existing roadway; installation of storm drainage pipes, structures; striping; permanent signing; traffic control; grading; temporary erosion and sediment control measures; and other work, and shall perform any changes in the work, all in full compliance with the contract documents entitled "E. Rutherford Street Improvements Tolt Avenue to Spilman Avenue", these Special Provisions, and the Standard Specifications which are by this reference incorporated herein and made a part hereof; and agrees to accept payment for the same in accordance with the said contract documents, including the schedule of prices in the "Proposal," the sum of_____ _____($_____), subject to the provisions of the Contract Documents, the Special Provisions, and the Standard Specifications.

1. The Notice to Proceed will be given in accordance with Section 1-08.4 of Contract Documents. The Contractor shall commence construction activities on the project site in accordance with Section 1-08.4 of the Contract Documents. Contract time shall begin in accordance with Section 1-08.5 of Contract Documents. Work shall be substantially complete in accordance with Section 1-08.5 of the Contract Documents.
2. The Contractor agrees to pay the City for liquidated damages incurred according to Section 1-08.9 of the Contract Documents per day for each and every day all work remains uncompleted after expiration of the specified time, as liquidated damages.
3. The Contractor shall provide for and bear the expense of all labor, materials, tools and equipment of any sort whatsoever that may be required for the full performance of the work provided for in this Contract upon the part of the Contractor.
4. The term "Contract Documents" shall mean and refer to the following: "Invitation to Bidders," "Bid Proposal," "Addenda" if any, "Specifications," "Plans," "Contract," "Performance Bond," "Maintenance Bond," "Payment Bond," "Special Provisions," "Notice to Proceed," "Change Orders" if any, and any documents referenced or incorporated into the Contract Documents, including, but not limited to the Washington State Department of Transportation's "2012 Standard Specifications for Road, Bridge, and Municipal Construction," including the American Public Works Association (APWA) General Special Provisions, MUTCD, WSDOT Standard Plans and City of Carnation Public Works Standards.
5. The City agrees to pay the Contractor for materials furnished and work performed in the manner and at such times as set forth in the Contract Documents.

6. The Contractor for himself/herself, and for his/her heirs, executors, administrators, successors, assigns, agents, subcontractors, and employees, does hereby agree to the full performance of all of the covenants herein contained upon the part of the Contractor.
7. It is further provided that no liability shall attach to the City by reason of entering into this Contract, except as expressly provided herein.

IN WITNESS WHEREOF the parties hereto have caused this Contract to be executed the day and year first hereinabove written:

CITY of CARNATION:

_____
Jim Berger, Mayor
City of Carnation
Date: _____

ATTEST:

_____
City Clerk

APPROVED FOR FORM:

_____
City Attorney

CONTRACTOR:

_____
(Signature of Official)

_____
(Print Name)

_____
(Title)

Date: _____

CITY OF CARNATION PERFORMANCE BOND

BOND NO.: _____
DATE POSTED: _____
PROJECT COMPLETION DATE: _____

RE: Project Name: _____
Contractor: _____
Project Address: _____

KNOW ALL PERSONS BY THESE PRESENTS: That we, _____ (hereinafter called the "Principal"), and _____ , a corporation organized under the laws of the State of _____, and authorized to transact surety business in the State of Washington (hereinafter called the "Surety"), are held and firmly bound unto the City of Carnation, Washington, in the sum of _____ _____ DOLLARS($), lawful money of the United States of America, for the payment of which sum we and each of us bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, by these presents. THE CONDITIONS of the above obligation are such that:

WHEREAS, the above named Principal has entered into a certain agreement with the City for the _____, within the City;

WHEREAS, the agreement requires that certain work be performed in accordance with said contract documents; and

WHEREAS, the contract signed by the City requires that the improvements are to be made or constructed within a certain period of time, unless an extension is granted in writing by the City; and

NOW, THEREFORE, it is understood and agreed that this obligation shall continue in effect until released in writing by the City of Carnation, but only after the Principal has performed and satisfied the following conditions:

A. Conditions.

1. The work to be performed but not limited by the Principal include:

   East Rutherford Street Improvements as described in the above Contract Documents, Plans and Specifications and in conformance with the Public Works Standards.

2. The Principal must perform the work in accordance with required said contract documents.

3. The Principal shall complete the work required by the above-reference conditions within the time stated in said contract documents, unless an extension is granted by the City.

4. The Principal must have paid all sums owing to laborers, contractors, mechanics, subcontractors, material suppliers or others as a result of such work for which a lien against any City property has arisen or may arise.

5. The Principal must obtain acceptance by the City of the work completed, all on or before thirty (30) days after the completion date set forth in paragraph 3 above.

B. Default.

1. If the Principal defaults and does not perform the above conditions within the time specified, then the Surety shall, within twenty (20) days of demand of the City, make a written commitment to the City that it will either:

   a) remedy the default itself with reasonable diligence pursuant to a time schedule acceptable to the City; or

   b) tender to the City within an additional ten (10) days the amount necessary, as determined by the City, for the City to remedy the default, up to the total bond amount.

Upon completion of the Surety's duties under either of the options above, the Surety shall then have fulfilled its obligations under this bond. If the Surety elects to fulfill its obligation pursuant to the requirements of subsection B (1)(b), the City shall notify the Surety of the actual cost of the remedy, upon completion of the remedy. The City shall return, without interest, any overpayment made by the Surety, and the Surety shall pay to the City any actual costs which exceeded the City's estimate, limited to the bond amount.

2. In the event the Principal fails to complete all of the above referenced improvements within the time period specified by the City, then the City, its employees and agents shall have the right at the City's sole election to enter onto said property described above for the purpose of completing the improvements. This provision shall not be construed as creating an obligation on the part of the City or its representatives to complete such improvements.

C. Corrections. Any corrections required by the City shall be commenced within seven (7) days of notification by the City and completed within thirty (30) days of the date of notification. If the work is not performed in a timely manner, the City shall have the right, without recourse to legal action, to take such action under this bond as described in Section B above.

D. Extensions and Changes. No change, extension of time, alteration or addition to the work to be performed by the Principal shall affect the obligation of the Principal or Surety on this bond, unless the City specifically agrees, in writing, to such alteration, addition, extension or change. The surety waives notice of any such change, extension, alteration or addition thereunder.

E. Enforcement. It is specifically agreed by and between the parties that in the event any legal action must be taken to enforce the provisions of this bond or to collect said bond, the prevailing party shall be entitled to collect its costs and reasonable attorney fees as a part of the reasonable costs of securing the obligation hereunder. In the event of settlement or resolution of these issues prior to the filing of any suit, the actual costs incurred by the City, including reasonable attorney fees, shall be considered a part of the obligation hereunder secured. Said costs and reasonable legal fees shall be recoverable by the prevailing party, not only from the proceeds of this bond, but also over and above said bond as a part of any recovery (including recovery on the bond) in any judicial proceeding. The Surety hereby agrees that this Agreement shall be governed by the laws of the State of Washington. Venue of any litigation arising out of this Agreement shall be in King County Superior Court.

F. Bond Expiration. This bond shall remain in full force and effect until the obligations secured hereby have been fully performed, and a Maintenance Bond guaranteeing maintenance of all improvements for a period of twenty-four (24)-months from the City's acceptance date has been submitted to the City in the amount of fifteen (15)-percent of the bond amount on the City's form, and until released in writing by the City.

DATED this _____ day of _____, 201___.

SURETY COMPANY (Signature must be notarized)

By: _____
Its _____

Business Name: _____

Business Address: _____

City/State/Zip Code: _____

Telephone Number: _____

CONTRACTOR (Signature must be notarized)

By _____
Its _____

Business Name: _____

Business Address: _____

City/State/Zip Code: _____

Telephone Number: _____

CITY OF CARNATION

By: _____
Its _____

Date: _____

City of Carnation
4621 Tolt Avenue
Carnation, Washington 98014-1238
(425) 333-4192

CHECK FOR ATTACHED NOTARY SIGNATURES

____ Individual (Form P-1)
____ Corporation (Form P-2)
____ Surety (Form P-2)

FORM P-1
(Individual)

STATE OF WASHINGTON)
) ss.
COUNTY OF KING)

I certify that I know or have satisfactory evidence that _____is the person who appeared before me, and said person acknowledged that (he/she) signed this instrument, and acknowledged it to be (his/her) free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____

_____

_____
(print or type name)

NOTARY PUBLIC in and for the
State of Washington, residing
at: _____

My Commission expires:_____

(Partnership or Corporation) **FORM P-2**

STATE OF WASHINGTON)
) ss.
COUNTY OF)

I certify that I know or have satisfactory evidence that _____is the person who appeared before me, and said person acknowledged as the _____of _____that (he/she) signed this instrument, on oath stated that (he/she) was authorized to execute the instrument and acknowledged it to be (his/her) free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____

_____
(print or type name)

NOTARY PUBLIC in and for the
State of Washington, residing
at: _____

My Commission expires: _____

(For Surety Use)

STATE OF WASHINGTON)
) ss.
COUNTY OF)

I certify that I know or have satisfactory evidence that _____is the person who appeared before me, and said person acknowledged as the _____of _____that (he/she) signed this instrument, on oath stated that (he/she) was authorized to execute the instrument and acknowledged it to be (his/her) free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____

_____
(print or type name)

NOTARY PUBLIC in and for the
State of Washington, residing
at: _____

My Commission expires: _____

CITY OF CARNATION PAYMENT BOND

KNOW ALL PERSONS BY THESE PRESENTS: that

_____
(Name of Contractor)

_____
(Address of Contractor)

a _____, hereinafter called Principal,
(Corporation, Partnership or Individual)

and _____
(Name of Surety)

hereinafter called Surety, are held and firmly bound unto _____

_____
(City)

_____
(Address of City)

hereinafter called CITY, in the penal sum of _____ Dollars, ($_____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the CITY, dated the _____ day of _____, 201__a copy of which is hereto attached and made a part hereof for the construction of:

EAST RUTHERFORD STREET IMPROVEMENTS

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, SUBCONTRACTORS, and corporations furnishing materials for or performing labor in the prosecution of the WORK provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, fuel, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such WORK, and all insurance premiums on said WORK, and for all labor, performed in such WORK whether by SUBCONTRACTOR or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any way affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the CITY and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in 1 counterpart, and shall be deemed an original, this the ____ day of _____, 2016.

SURETY COMPANY CONTRACTOR

By: _____	By _____
Its _____	Its _____
Business Name: _____	Business Name: _____
Business Address: _____	Business Address: _____
City/State/Zip Code: _____	City/State/Zip Code: _____
Telephone Number: _____	Telephone Number: _____

NOTE: Date of BOND must not be prior to date of Contract. If CONTRACTOR is a Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must be authorized to transact business in the State of Washington.

CHECK FOR ATTACHED NOTARY SIGNATURE

____ Individual (Form P-1)
____ Corporation (Form P-2)

FORM P-1 / NOTARY BLOCK
(Use for Individual/Sole Proprietor Only)

STATE OF WASHINGTON)
) ss.
COUNTY OF _____)

I certify that I know or have satisfactory evidence that _____ is the person who appeared before me, and said person acknowledged that (he/she) signed this instrument, and acknowledged it to be (his/her) free and voluntary act for the uses and purposes mentioned in the instrument.

Dated:_____

_____
(print or type name)

NOTARY PUBLIC in and for the
State of Washington, residing
at:_____

My Commission expires:_____

FORM P-2 / NOTARY BLOCK
(Use for Partnership or Corporation Only)

STATE OF WASHINGTON)
) ss.
COUNTY OF _____)

I certify that I know or have satisfactory evidence that _____ is the person who appeared before me, and said person acknowledged as the _____ of _____that (he/she) signed this instrument, on oath stated that (he/she) was authorized to execute the instrument and acknowledged it to be (his/her) free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____

_____
(print or type name)

NOTARY PUBLIC in and for the
State of Washington, residing
at:_____

My Commission expires:_____

(FOR SURETY USE)
STATE OF WASHINGTON)
) ss.
COUNTY OF _____)

I certify that I know or have satisfactory evidence that _____ is the person who appeared before me, and said person acknowledged as the _____ of _____that (he/she) signed this instrument, on oath stated that (he/she) was authorized to execute the instrument and acknowledged it to be (his/her) free and voluntary act for the uses and purposes mentioned in the instrument.

Dated:_____

_____
(print or type name)

NOTARY PUBLIC in and for the
State of Washington, residing
at:_____
My Commission expires:_____

CITY OF CARNATION MAINTENANCE BOND

BOND NO.:_____
DATE POSTED: _____
PROJECT COMPLETION DATE: _____

RE: City of Carnation: EAST RUTHERFORD STREET IMPROVEMENTS

Contractor: _____

Project Address: _____

KNOW ALL PERSONS BY THESE PRESENTS: That we, _____, (hereinafter called the "Principal"), and _____, a corporation organized under the laws of the State of _____, and authorized to transact surety business in the State of Washington (hereinafter called the "Surety"), are held and firmly bound unto the City of Carnation, Washington, in the sum of _____ dollars and _____ cents ($_____), lawful money of the United States of America, for the payment of which sum we and each of us bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, by these presents. THE CONDITIONS of the above obligation are such that:

WHEREAS, the above named Principal has constructed and installed certain improvements in connection with a project as described above within the City; and

WHEREAS, in order to provide security for the obligation of the Principal to repair and/or replace said improvements against defects in workmanship, materials or installation for a period of twenty-four (24) months after written and final acceptance of the same and approval by the City; and

WHEREAS, in order to enable the City to release the performance bond filed by the Principal with the City in connection with such improvements;

NOW, THEREFORE, this Maintenance Bond has been secured and is hereby submitted to the City. It is understood and agreed that this obligation shall continue in effect until released in writing by the City of Carnation, but only after the Principal has performed and satisfied the following conditions:

A. The work or improvements installed by the Principal and subject to the terms and conditions of this Bond are as follows:

The work to be completed under this contract generally consists of but is not limited to the widening of an existing roadway the reconstruction of the existing street, construction of a bioswale, asphalt concrete sidewalk; permanent signing; traffic control; grading; temporary erosion and sediment control measures; and other work, and shall perform any changes in the work, all as more completely described in the contract documents entitled "E. Rutherford Street Improvements Tolt Avenue to Spilman Avenue."

B. The Principal and Surety agree that the work and improvements installed pursuant to the Performance Bond or other security instrument filed with the City in the above-referenced project shall remain free from defects in material, workmanship and installation (or, in the case of landscaping, shall survive,) for a period of two (2) years after written and final acceptance of the

same and approval by the City. Maintenance is defined as acts carried out to prevent a decline, lapse or cessation of the state of the project or improvements as accepted by the City during the 24 month period after final and written acceptance, and includes, but is not limited to, repair or replacement of defective workmanship, materials or installations.

C. The Principal shall, at its sole cost and expense, carefully replace and/or repair any damage or defects in workmanship, materials or installation to the City-owned real property on which improvements have been installed, and leave the same in as good condition as it was before commencement of the work.

D. The Principal and the Surety agree that in the event any of the improvements or restoration work installed or completed by the Principal as described herein, fail to remain free from defects in materials, workmanship or installation (or in the case of landscaping, fail to survive), for a period of two (2) years from the date of acceptance of the work by the City, the Principal shall repair and/replace the same within ten (10) days of demand by the City, and if the Principal should fail to do so, then the Surety shall:

1. Within twenty (20) days of demand of the City, make written commitment to the City that it will either:

   a) remedy the default itself with reasonable diligence pursuant to a time schedule acceptable to the City; or

   b) tender to the City within an additional ten (10) days the amount necessary, as determined by the City, for the City to remedy the default, up to the total bond amount.

   Upon completion of the Surety's duties under either of the options above, the Surety shall then have fulfilled its obligations under this bond. If the Surety elects to fulfill its obligation pursuant to the requirements of subsection D(1)(b), the City shall notify the Surety of the actual cost of the remedy, upon completion of the remedy. The City shall return, without interest, any overpayment made by the Surety, and the Surety shall pay to the City any actual costs which exceeded the City's estimate, limited to the bond amount.

2. In the event the Principal fails to make repairs or provide maintenance within the time period requested by the City, then the City, its employees and agents shall have the right at the City's sole election to enter onto said property described above for the purpose of repairing or maintaining the improvements. This provision shall not be construed as creating an obligation on the part of the City or its representatives to repair or maintain such improvements.

E. Corrections. Any corrections required by the City shall be commenced within ten (10) days of notification by the City and completed within thirty (30) days of the date of notification. If the work is not performed in a timely manner, the City shall have the right, without recourse to legal action, to take such action under this bond as described in Section D above.

F. Extensions and Changes. No change, extension of time, alteration or addition to the work to be performed by the Principal shall affect the obligation of the Principal or Surety on this bond, unless the City specifically agrees, in writing, to such alteration, addition, extension or change. The surety waives notice of any such change, extension, alteration or addition thereunder.

G. Enforcement. It is specifically agreed by and between the parties that in the event any legal action must be taken to enforce the provisions of this bond or to collect said bond, the prevailing party shall be entitled to collect its costs and reasonable attorney fees as a part of the reasonable costs of securing the obligation hereunder. In the event of settlement or resolution of these issues prior to the filing of any suit, the actual costs incurred by the City, including reasonable attorney fees, shall be considered a part of the obligation hereunder secured. Said costs and reasonable attorneys' fees shall be recoverable by the prevailing party, not only from the proceeds of this bond, but also over and above said bond as a part of any recovery (including recovery on the bond) in any judicial proceeding. The Surety hereby agrees that this Agreement shall be governed by the laws of the State of Washington. Venue of any litigation arising out of this Agreement shall be in King County Superior Court.

H. Bond Expiration. This bond shall remain in full force and effect until the obligations secured hereby have been fully performed and until released in writing by the City at the request of the Surety or Principal.

DATED this _____ day of _____, 201__.

SURETY COMPANY (Signature must be notarized)

By: _____
Its _____

Business Name: _____

Business Address: _____

City/State/Zip Code: _____

Telephone Number: _____

CONTRACTOR (Signature must be notarized)

By _____
Its _____

Business Name: _____

Business Address: _____

City/State/Zip Code: _____

Telephone Number: _____

CITY OF CARNATION

By: _____
Its

Date: _____

City of Carnation
4621 Tolt Avenue
Carnation, Washington 98014-1238
(425) 333-4192

CHECK FOR ATTACHED NOTARY SIGNATURES, P-1 & P-2 forms

FORM P-1 / NOTARY BLOCK
(Use for Individual/Sole Proprietor Only)

STATE OF WASHINGTON)
) ss.
COUNTY OF _____)

I certify that I know or have satisfactory evidence that _____ is the person who appeared before me, and said person acknowledged that (he/she) signed this instrument, and acknowledged it to be (his/her) free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____

_____
(print or type name)

NOTARY PUBLIC in and for the
State of Washington, residing
at: _____

My Commission expires: _____

FORM P-2 / NOTARY BLOCK
(Use for Partnership or Corporation Only)

STATE OF WASHINGTON)
) ss.
COUNTY OF _____)

I certify that I know or have satisfactory evidence that _____ is the person who appeared before me, and said person acknowledged as the _____ of _____that (he/she) signed this instrument, on oath stated that (he/she) was authorized to execute the instrument and acknowledged it to be (his/her) free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____

_____
(print or type name)
(print or type name)

NOTARY PUBLIC in and for the
State of Washington, residing
at: _____

My Commission expires: _____

(FOR SURETY USE)
STATE OF WASHINGTON)
) ss.
COUNTY OF_____)

I certify that I know or have satisfactory evidence that _____ is the person who appeared before me, and said person acknowledged as the _____ of _____that (he/she) signed this instrument, on oath stated that (he/she) was authorized to execute the instrument and acknowledged it to be (his/her) free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____

_____

_____
(print or type name)

NOTARY PUBLIC in and for the
State of Washington, residing
at: _____

My Commission expires: _____

(*This page left blank intentionally*.)

RETAINAGE INVESTMENT OPTION

In accordance with RCW 60.28, the Contractor has the option to designate how retained funds are invested. Select one of the following options by checking the appropriate box and filling in the required information.

☐ **Savings Account:** Please place the retained funds in an interested-bearing savings account. Any interest earned will be paid to the firm indicated below. The retained funds shall be deposited with:

Bank Name: _____

Branch: _____

Account Number: _____

☐ **Escrow/Investment:** Please deliver the retained funds to the bank listed below. The funds are to be placed in escrow or invested in accordance with the attached Escrow Agreement. Any interest earned will be paid to the firm indicated below:

Bank Name: _____

Branch: _____

Account Number: _____

☐ **Guarantee Deposit:** Please deposit the retained funds in a manner selected by the Owner. Any interest earned shall be kept by the Owner.

☐ **Retainage Bond:** Please accept a retainage bond on the City of Carnation's standard retainage bond form in lieu of earned retained funds.

Release of retained funds shall be made in accordance with WSDOT General Requirements, Section 1-09.9(1), by:

Contractor Name: _____

Signature: _____

Printed Name: _____

Date: _____

(*This page left blank intentionally*.)

STANDARD SPECIFICATIONS

Reference hereinafter to the "Standard Specifications" shall mean the 2016 Standard Specifications for Road, Bridge, and Municipal Construction (English). Any other standards or standard-type specifications employed will be specifically referenced in each instance.

The 2016 Standard Specifications for Road, Bridge, and Municipal Construction (English), prepared by the Washington State Chapter of the American Public Works Association (APWA) and the Washington State Department of Transportation (WSDOT), including all revisions and supplements in effect prior to the date of advertisement, are hereby included in these Contract Documents as though quoted in their entirety and shall apply except as amended, supplemented or superseded by the following Amendments and Special Provisions.

Each and every bidder shall be responsible for being familiar with the above mentioned Standard Specifications, Special Provisions and any other standards or specifications to the "Contracting Agency", the "Department" or "Department of Transportation", such reference shall be construed to mean the City of Carnation, Washington. Where reference is made to the "engineer", such reference shall be construed to mean the City Engineer of the City of Carnation or the duly authorized assistants or representatives

AMENDMENTS

1

INTRODUCTION

The following Amendments and Special Provisions shall be used in conjunction with the 2016 Standard Specifications for Road, Bridge, and Municipal Construction.

AMENDMENTS TO THE STANDARD SPECIFICATIONS

The following Amendments to the Standard Specifications are made a part of this contract and supersede any conflicting provisions of the Standard Specifications. For informational purposes, the date following each Amendment title indicates the implementation date of the Amendment or the latest date of revision.

Each Amendment contains all current revisions to the applicable section of the Standard Specifications and may include references which do not apply to this particular project.

Section 1-06, Control of Material
January 4, 2016

This section is supplemented with the following new section and subsections:

1-06.6 Recycled Materials

The Contractor shall make their best effort to utilize recycled materials in the construction of the project; the use of recycled concrete aggregate as specified in Section 1-06.6(1)A is a requirement of the Contract.

The Contractor shall submit a Recycled Material Utilization Plan as a Type 1 Working Drawing within 30 calendar days after the Contract is executed. The plan shall provide the Contractor's anticipated usage of recycled materials for meeting the requirements of these Specifications. The quantity of recycled materials will be provided in tons and as a percentage of the Plan quantity for each material listed in Section 9-03.21(1)E Table on Maximum Allowable Percent (By Weight) of Recycled Material. When a Contract does not include Work that requires the use of a material that is included in the requirements for using materials the Contractor may state in their plan that no recycled materials are proposed for use.

Prior to Physical Completion the Contractor shall report the quantity of recycled materials that were utilized in the construction of the project for each of the items listed in Section 9-03.21. The report shall include hot mix asphalt, recycled concrete aggregate, recycled glass, steel furnace slag and other recycled materials (e.g. utilization of on-site material and aggregates from concrete returned to the supplier). The Contractor's report shall be provided on DOT Form 350-075 Recycled Materials Reporting.

1-06.6(1) Recycling of Aggregate and Concrete Materials

1-06.6(1)A General

The minimum quantity of recycled concrete aggregate shall be 25 percent of the total quantity of aggregate that is incorporated into the Contract for those items listed in

Section 9-03.21(1)E Table on Maximum Allowable Percent (By Weight) of Recycled Material that allow the use of recycled concrete aggregate. The percentage of recycled material incorporated into the project for meeting the required percentage will be calculated in tons based on the quantity of recycled concrete used on the entire Contract and not as individual items.

If the Contractor's total cost for Work with recycled concrete aggregate is greater than without the Contractor may choose to not use recycled concrete aggregate. When the Contractor does not meet the minimum requirement of 25 percent recycled concrete aggregate for the Contract due to costs or any other reason the following shall be submitted:

1. A cost estimate for each material listed in Section 9-03.21(1)E that is utilized on the Contract. The cost estimate shall include the following:

    a. The estimated costs for the Work for each material with 25 percent recycled concrete aggregate. The cost estimate shall include for each material a copy of the price quote from the supplier with the lowest total cost for the Work.

    b. The estimated costs for the Work for each material without recycled concrete aggregate.

The Contractor's cost estimates shall be submitted as an attachment to the Recycled Materials Reporting form.

Section 1-07, Legal Relations and Responsibilities to the Public
April 4, 2016

1-07.1 Laws to be Observed

In the second to last sentence of the third paragraph, "WSDOT" is revised to read "Contracting Agency".

1-07.2(2) State Sales Tax: WAC 458-20-170 – Retail Sales Tax

The last three sentences of the first paragraph are deleted and replaced with the following new sentence:

The Contractor (Prime or Subcontractor) shall include sales or use tax on the purchase or rental of tools, machinery, equipment, or consumable supplies not integrated into the project, in the unit bid prices.

1-07.9(2) Posting Notices

Items 1 and 2 are revised to read:

1. EEOC - P/E-1 (revised 11/09, supplemented 09/15) – **Equal Employment Opportunity IS THE LAW** published by US Department of Labor. Post for projects with federal-aid funding.

2. FHWA 1022 (revised 05/15) – **NOTICE Federal-Aid Project** published by Federal Highway Administration (FHWA). Post for projects with federal-aid funding.

Items 5, 6 and 7 are revised to read:

5. WHD 1420 (revised 02/13) – **Employee Rights and Responsibilities Under The Family And Medical Leave Act** published by US Department of Labor. Post on all projects.

6. WHD 1462 (revised 01/16) – **Employee Polygraph Protection Act** published by US Department of Labor. Post on all projects.

7. F416-081-909 (revised 09/15) – **Job Safety and Health Law** published by Washington State Department of Labor and Industries. Post on all projects.

Items 9 and 10 are revised to read:

9. F700-074-909 (revised 06/13) – **Your Rights as a Worker in Washington State** by Washington State Department of Labor and Industries (L&I). Post on all projects.

10. EMS 9874 (revised 10/15) – **Unemployment Benefits** published by Washington State Employment Security Department. Post on all projects.

Section 1-08, Prosecution and Progress
January 4, 2016

1-08.1(1) Prompt Payment, Subcontract Completion and Return of Retainage Withheld

In item number 5 of the first paragraph, “WSDOT” is revised to read “Contracting Agency”.

Section 5-02, Bituminous Surface Treatment
April 4, 2016

5-02.3(2) Preparation of Roadway Surface

This section is supplemented with the following new subsection:

5-02.3(2)E Crack Sealing

Where shown in the Plans, seal cracks and joints in the pavement in accordance with Section 5-04.3(4)A1 and the following:

1. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.

2. Cracks greater than 1 inch in width – fill with sand slurry.

Section 5-04, Hot Mix Asphalt
April 4, 2016

This section (and all subsections) is revised to read:

This Section 5-04 is written in a style which, unless otherwise indicated, shall be interpreted as direction to the Contractor.

5-04.1 Description

This Work consists of providing and placing one or more layers of plant-mixed hot mix asphalt (HMA) on a prepared foundation or base, in accordance with these

Specifications and the lines, grades, thicknesses, and typical cross-sections shown in the Plans. The manufacture of HMA may include warm mix asphalt (WMA) processes in accordance with these Specifications.

HMA shall be composed of asphalt binder and mineral materials as required, and may include reclaimed asphalt pavement (RAP) or reclaimed asphalt shingles (RAS), mixed in the proportions specified to provide a homogeneous, stable, and workable mix.

5-04.2 Materials

Provide materials as specified in these sections:

Asphalt Binder	9-02.1(4)
Cationic Emulsified Asphalt	9-02.1(6)
Anti-Stripping Additive	9-02.4
Warm Mix Asphalt Additive	9-02.5
Aggregates	9-03.8
Reclaimed Asphalt Pavement (RAP)	9-03.8(3)B
Reclaimed Asphalt Shingles (RAS)	9-03.8(3)B
Mineral Filler	9-03.8(5)
Recycled Material	9-03.21
Hot Poured Sealant	9-04.2(1)A
Sand Slurry	9-04.2(1)B

5-04.2(1) How to Get an HMA Mix Design on the QPL

Comply with each of the following:

- Develop the mix design in accordance with WSDOT SOP 732.
- Develop a mix design that complies with Sections 9-03.8(2) and 9-03.8(6).
- Develop a mix design no more than 6 months prior to submitting it for QPL evaluation.
- Submit mix designs to the WSDOT State Materials Laboratory in Tumwater, including WSDOT Form 350-042.
- Include representative samples of the materials that are to be used in the HMA production as part of the mix design submittal. See Section 5-04.2(1)A to determine when to include samples of RAP or RAS.
- Identify the brand, type, and percentage of anti-stripping additive in the mix design submittal.
- Include with the mix design submittal a certification from the asphalt binder supplier that the anti-stripping additive is compatible with the crude source and the formulation of asphalt binder proposed for use in the mix design.
- Do not include warm mix asphalt (WMA) additives when developing a mix design or submitting a mix design for QPL evaluation. The use of warm mix asphalt (WMA) additives is not part of the process for obtaining approval for listing a mix design on the QPL. Refer to Section 5-04.2(2)B.

The Contracting Agency's basis for approving, testing, and evaluating HMA mix designs for approval on the QPL is dependent on the contractual basis for acceptance of the HMA mixture, as shown in Table 1.

Table 1

Basis for Contracting Agency Evaluation of HMA Mix Designs for Approval on the QPL		
Contractual Basis for Acceptance of HMA Mixture (see Section 5-04.3(9))	**Basis for Contracting Agency Approval of Mix Design for Placement on QPL**	**Contracting Agency Materials Testing for Evaluation of the Mix Design**
Statistical Evaluation, or Nonstatistical Evaluation	WSDOT Standard Practice QC-8	The Contracting Agency will test the mix design materials for compliance with Sections 9-03.8(2) and 9-03.8(6).
Visual Evaluation	Review of Form 350-042 for compliance with Sections 9-03.8(2) and 9-03.8(6)	The Contracting Agency may elect to test the mix design materials, or evaluate in accordance with WSDOT Standard Practice QC-8, at its sole discretion.

If the Contracting Agency approves the mix design, it will be listed on the QPL for 12 consecutive months. The Contracting Agency may extend the 12 month listing provided the Contractor submits a certification letter to the Qualified Products Engineer verifying that the aggregate source and job mix formula (JMF) gradation, and asphalt binder crude source and formulation have not changed. The Contractor may submit the certification no sooner than one month prior to expiration of the initial 12 month mix design approval. Within 7 calendar days of receipt of the Contractor's certification, the Contracting Agency will update the QPL. The maximum duration for approval of a mix design and listing on the QPL will be 24 months from the date of initial approval or as approved by the Engineer.

5-04.2(1)A Mix Designs Containing RAP and/or RAS

Mix designs are classified by the RAP and/or RAS content as shown in Table 2.

Table 2

Mix Design Classification Based on RAP/RAS Content	
RAP/RAS Classification	**RAP/RAS Content[1]**
Low RAP/No RAS	0% ≤ RAP% ≤ 20% and RAS% = 0%
High RAP/Any RAS	20% < RAP% ≤ Maximum Allowable RAP[2] and/or 0% < RAS% ≤ Maximum Allowable RAS[2]

[1]Percentages in this table are by total weight of HMA

[2]See Table 4 to determine the limits on the maximum amount RAP

and/or RAS.

5-04.2(1)A1 Low RAP/No RAS – Mix Design Submittals for Placement on QPL

For Low RAP/No RAS mix designs, comply with the following additional requirements:

1. Develop the mix design without the inclusion of RAP.

2. The asphalt binder grade shall be the grade indicated in the Bid item name or as otherwise required by the Contract.

3. Do not submit samples of RAP with these mix designs.

4. Testing RAP or RAS stockpiles is not required for obtaining approval for placing these mix designs on the QPL.

5-04.2(1)A2 High RAP/Any RAS - Mix Design Submittals for Placement on QPL

For High RAP/Any RAS mix designs, comply with the following additional requirements:

1. For mix designs with any RAS, test the RAS stockpile (and RAP stockpile if any RAP is in the mix design) in accordance with Table 3.

2. For High RAP mix designs with no RAS, test the RAP stockpile in accordance with Table 3.

3. For mix designs with High RAP/Any RAS, construct a single stockpile for RAP and a single stockpile for RAS and isolate (sequester) these stockpiles from further stockpiling before beginning development of the mix design. Test the RAP and RAS during stockpile construction as required by item 1 and 2 above. Use the test data in developing the mix design, and report the test data to the Contracting Agency on WSDOT Form 350-042 as part of the mix design submittal for approval on the QPL. Account for the reduction in asphalt binder contributed from RAS in accordance with AASHTO PP 78. Do not add to these stockpiles after starting the mix design process.

Table 3

Test Frequency of RAP/RAS During RAP/RAS Stockpile Construction For Approving a High RAP/Any RAS Mix Design for Placement on the QPL		
Test Frequency[1]	Test for	Test Method
• 1/1000 tons of RAP (minimum of 10 per mix design) and • 1/100 tons of RAS (minimum	Asphalt Binder Content and Sieve Analysis of Fine and Coarse Aggregate	FOP for AASHTO T 308 and FOP for WAQTC T 27/T 11

of 10 per mix design)		

[1]"tons", in this table, refers to tons of the reclaimed material before being incorporated into HMA.

4. Limit the amount of RAP and/or RAS used in a High RAP/Any RAS mix design by the amount of binder contributed by the RAP and/or RAS, in accordance with Table 4.

Table 4

Maximum Amount of RAP and/or RAS in HMA Mixture	
Maximum Amount of Binder Contributed from:	
RAP	RAS
40%[1] minus contribution of binder from RAS	20%[2]

[1] Calculated as the weight of asphalt binder contributed from the RAP as a percentage of the total weight of asphalt binder in the mixture.

[2] Calculated as the weight of asphalt binder contributed from the RAS as a percentage of the total weight of asphalt binder in the mixture.

5. Develop the mix design including RAP, RAS, recycling agent, and new binder.

6. Extract, recover, and test the asphalt residue from the RAP and RAS stockpiles to determine the percent of recycling agent and/or grade of new asphalt binder needed to meet but not exceed the performance grade (PG) of asphalt binder required by the Contract.

   a. Perform the asphalt extraction in accordance with AASHTO T 164 or ASTM D 2172 using reagent grade trichloroethylene.

   b. Perform the asphalt recovery in accordance with AASHTO R 59 or ASTM D 1856.

   c. Test the recovered asphalt residue in accordance with AASHTO R 29 to determine the asphalt binder grade in accordance with Section 9-02.1(4).

   d. After determining the recovered asphalt binder grade, determine the percent of recycling agent and/or grade of new asphalt binder in accordance with ASTM D 4887.

   e. Test the final blend of recycling agent, binder recovered from the RAP and RAS, and new asphalt binder in accordance with AASHTO R 29. The final blended binder shall meet but not exceed the performance grade of asphalt binder required by the Contract and comply with the requirements of Section 9-02.1(4).

7. Include the following test data with the mix design submittal:

    a. All test data from RAP and RAS stockpile construction.

    b. All data from testing the recovered and blended asphalt binder.

8. Include representative samples of the following with the mix design submittal:

    a. RAP and RAS.

    b. 100 grams of recovered asphalt residue from the RAP and RAS that are to be used in the HMA production.

5-04.2(1)B Commercial HMA - Mix Design Submittal for Placement on QPL

For HMA used in the Bid item Commercial HMA, in addition to the requirements of 5-04.2(1) identify the following in the submittal:

1. Commercial HMA

2. Class of HMA

3. Performance grade of binder

4. Equivalent Single Axle Load (ESAL)

The Contracting Agency may elect to approve Commercial HMA mix designs without evaluation.

5-04.2(1)C Mix Design Resubmittal for QPL Approval

Develop a new mix design and resubmit for approval on the QPL when any of the following changes occur. When these occur, discontinue using the mix design until after it is reapproved on the QPL.

1. Change in the source of crude petroleum used in the asphalt binder.

2. Changes in the asphalt binder refining process.

3. Changes in additives or modifiers in the asphalt binder.

4. Changes in the anti-strip additive, brand, type or quantity.

5. Changes to the source of material for aggregate.

6. Changes to the job mix formula that exceed the amounts as described in item 2 of Section 9-03.8(7), unless otherwise approved by the Engineer.

7. Changes in the percentage of material from a stockpile, when such changes exceed 5% of the total aggregate weight.

    a. Changes to the percentage of material from a stockpile will be calculated based on the total aggregate weight (not including the weight of RAP) for Low RAP/No RAS mix designs.

    b. For High RAP/Any RAS mix designs, changes in the percentage of material from a stockpile will be based on total aggregate weight including the weight of RAP (and/or RAS when included in the mixture).

Prior to making any change in the amount of RAS in an approved mix design, notify the Engineer for determination of whether a new mix design is required, and obtain the Engineer's approval prior to implementing such changes.

5-04.2(2) Mix Design – Obtaining Project Approval

Use only mix designs listed on the Qualified Products List (QPL). Submit WSDOT Form 350-041 to the Engineer to request approval to use a mix design from the QPL. Changes to the job mix formula (JMF) that have been approved on other contracts may be included. The Engineer may reject a request to use a mix design if production of HMA using that mix design on any contract is not in compliance with Section 5-04.3(11)D, E, F, and G for mixture or compaction.

5-04.2(2)A Changes to the Job Mix Formula

The approved mix design obtained from the QPL will be considered the starting job mix formula (JMF) and shall be used as the initial basis for acceptance of HMA mixture, as detailed in Section 5-04.3(9).

During production the Contractor may request to adjust the JMF. Any adjustments to the JMF will require approval of the Engineer and shall be made in accordance with item 2 of Section 9-03.8(7). After approval by the Engineer, such adjusted JMF's shall constitute the basis for acceptance of the HMA mixture.

5-04.2(2)B Using Warm Mix Asphalt Processes

The Contractor may, at the Contractor's discretion, elect to use warm mix asphalt (WMA) processes for producing HMA. WMA processes include organic additives, chemical additives, and foaming. The use of WMA is subject to the following:

- Do not use WMA processes in the production of High RAP/Any RAS mixtures.
- Before using WMA processes, obtain the Engineer's approval using WSDOT Form 350-076 to describe the proposed WMA process.

5-04.3 Construction Requirements

5-04.3(1) Weather Limitations

Do not place HMA for wearing course on any Traveled Way beginning October 1st through March 31st of the following year, without written concurrence from the Engineer.

Do not place HMA on any wet surface, or when the average surface temperatures are less than those specified in Table 5, or when weather conditions otherwise prevent the proper handling or finishing of the HMA.

Table 5

Minimum Surface Temperature for Paving		
Compacted Thickness (Feet)	**Wearing Course**	**Other Courses**
Less than 0.10	55°F	45°F
0.10 to 0.20	45°F	35°F
More than 0.20	35°F	35°F

5-04.3(2) Paving Under Traffic

These requirements apply when the Roadway being paved is open to traffic.

In hot weather, the Engineer may require the application of water to the pavement to accelerate the finish rolling of the pavement and to shorten the time required before reopening to traffic.

During paving operations, maintain temporary pavement markings throughout the project. Install temporary pavement markings on the Roadway prior to opening to traffic. Temporary pavement markings shall comply with Section 8-23.

5-04.3(3) Equipment

5-04.3(3)A Mixing Plant

Equip mixing plants as follows.

1. **Use tanks for storage and preparation of asphalt binder which:**

   - Heat the contents by means that do not allow flame to contact the contents or the tank, such as by steam or electricity.
   - Heat and hold contents at the required temperatures.
   - Continuously circulate contents to provide uniform temperature and consistency during the operating period.
   - Provide an asphalt binder sampling valve, in either the storage tank or the supply line to the mixer.

2. **Provide thermometric equipment:**

   - In the asphalt binder feed line near the charging valve at the mixer unit, capable of detecting temperature ranges expected in the HMA and in a location convenient and safe for access by Inspectors.
   - At the discharge chute of the drier to automatically register or indicate the temperature of the heated aggregates, and situated in full view of the plant operator.

3. **When heating asphalt binder:**

- Do not exceed the maximum temperature of the asphalt binder recommended by the asphalt binder supplier.

- Avoid local variations in heating.

- Provide a continuous supply of asphalt binder to the mixer at a uniform average temperature with no individual variations exceeding 25°F.

4. **Provide a mechanical sampler for sampling mineral materials that:**

   - Meets the crushing or screening requirements of Section 1-05.6.

5. **Provide HMA sampling equipment that complies with WSDOT SOP T-168.**

   - Use a mechanical sampling device installed between the discharge of the silo and the truck transport, approved by the Engineer, or

   - Platforms or devices to enable sampling from the truck transport without entering the truck transport for sampling HMA.

6. **Provide for setup and operation of the Contracting Agency's field testing:**

   - As required in Section 3-01.2(2).

7. **Provide screens or a lump breaker:**

   - When using any RAP or any RAS, to eliminate oversize RAP or RAS particles from entering the pug mill or drum mixer.

5-04.3(3)B Hauling Equipment

Provide HMA hauling equipment with tight, clean, smooth metal beds and a cover of canvas or other suitable material of sufficient size to protect the HMA from adverse weather. Securely attach the cover to protect the HMA whenever the weather conditions during the work shift include, or are forecast to include, precipitation or an air temperature less than 45°F.

Prevent HMA from adhering to the hauling equipment. Spray metal beds with an environmentally benign release agent. Drain excess release agent prior to filling hauling equipment with HMA. Do not use petroleum derivatives or other coating material that contaminate or alter the characteristics of the HMA. For hopper trucks, operate the conveyer during the process of applying the release agent.

5-04.3(3)C Pavers

Use self-contained, power-propelled pavers provided with an internally heated vibratory screed that is capable of spreading and finishing courses of HMA in lane widths required by the paving section shown in the Plans.

When requested by the Engineer, provide written certification that the paver is equipped with the most current equipment available from the manufacturer for the prevention of segregation of the coarse aggregate particles. The certification shall list the make, model, and year of the paver and any equipment that has been retrofitted to the paver.

Operate the screed in accordance with the manufacturer's recommendations and in a manner to produce a finished surface of the required evenness and texture without tearing, shoving, segregating, or gouging the mixture. Provide a copy of the manufacturer's recommendations upon request by the Contracting Agency. Extensions to the screed will be allowed provided they produce the same results, including ride, density, and surface texture as obtained by the primary screed. In the Travelled Way do not use extensions without both augers and an internally heated vibratory screed.

Equip the paver with automatic screed controls and sensors for either or both sides of the paver. The controls shall be capable of sensing grade from an outside reference line, sensing the transverse slope of the screed, and providing automatic signals that operate the screed to maintain the desired grade and transverse slope. Construct the sensor so it will operate from a reference line or a mat referencing device. The transverse slope controller shall be capable of maintaining the screed at the desired slope within plus or minus 0.1 percent.

Equip the paver with automatic feeder controls, properly adjusted to maintain a uniform depth of material ahead of the screed.

Manual operation of the screed is permitted in the construction of irregularly shaped and minor areas. These areas include, but are not limited to, gore areas, road approaches, tapers and left-turn channelizations.

When specified in the Contract, provide reference lines for vertical control. Place reference lines on both outer edges of the Traveled Way of each Roadway. Horizontal control utilizing the reference line is permitted. Automatically control the grade and slope of intermediate lanes by means of reference lines or a mat referencing device and a slope control device. When the finish of the grade prepared for paving is superior to the established tolerances and when, in the opinion of the Engineer, further improvement to the line, grade, cross-section, and smoothness can best be achieved without the use of the reference line, a mat referencing device may be substituted for the reference line. Substitution of the device will be subject to the continued approval of the Engineer. A joint matcher may be used subject to the approval of the Engineer. The reference line may be removed after completion of the first course of HMA when approved by the Engineer. Whenever the Engineer determines that any of these methods are failing to provide the necessary vertical control, the reference lines will be reinstalled by the Contractor.

Furnish and install all pins, brackets, tensioning devices, wire, and accessories necessary for satisfactory operation of the automatic control equipment.

If the paving machine in use is not providing the required finish, the Engineer may suspend Work as allowed by Section 1-08.6.

5-04.3(3)D Material Transfer Device or Material Transfer Vehicle

Use a material transfer device (MTD) or material transfer vehicle (MTV) to deliver the HMA from the hauling equipment to the paving machine for any lift in (or partially in) the top 0.30 feet of the pavement section used in traffic lanes. However, an MTD/V is not required for HMA placed in irregularly shaped and minor areas such as tapers and turn lanes, or for HMA mixture that is accepted by Visual Evaluation. At the Contractor's request the Engineer may approve paving without an MTD/V; the Engineer will determine if an equitable adjustment in cost or time is due. If a windrow elevator is used, the Engineer may limit the length of the windrow in urban areas or through intersections.

To be approved for use, an MTV:

1. Shall be a self-propelled vehicle, separate from the hauling vehicle or paver.

2. Shall not connected to the hauling vehicle or paver.

3. May accept HMA directly from the haul vehicle or pick up HMA from a windrow.

4. Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.

5. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.

To be approved for use, an MTD:

1. Shall be positively connected to the paver.

2. May accept HMA directly from the haul vehicle or pick up HMA from a windrow.

3. Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.

4. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.

5-04.3(3)E Rollers

Operate rollers in accordance with the manufacturer's recommendations. When requested by the Engineer, provide a Type 1 Working Drawing of the manufacturer's recommendation for the use of any roller planned for use on the project. Do not use rollers that crush aggregate, produce pickup or

washboard, unevenly compact the surface, displace the mix, or produce other undesirable results.

5-04.3(4) Preparation of Existing Paved Surfaces

Before constructing HMA on an existing paved surface, the entire surface of the pavement shall be clean. Entirely remove all fatty asphalt patches, grease drippings, and other deleterious substances from the existing pavement to the satisfaction of the Engineer. Thoroughly clean all pavements or bituminous surfaces of dust, soil, pavement grindings, and other foreign matter. Thoroughly remove any cleaning or solvent type liquids used to clean equipment spilled on the pavement before paving proceeds. Fill all holes and small depressions with an appropriate class of HMA. Level and thoroughly compact the surface of the patched area.

Apply a uniform coat of asphalt (tack coat) to all paved surfaces on which any course of HMA is to be placed or abutted. Apply tack coat to cover the cleaned existing pavement with a thin film of residual asphalt free of streaks and bare spots. Apply a heavy application of tack coat to all joints. For Roadways open to traffic, limit the application of tack coat to surfaces that will be paved during the same working shift. Equip the spreading equipment with a thermometer to indicate the temperature of the tack coat material.

Do not operate equipment on tacked surfaces until the tack has broken and cured. Repair tack coat damaged by the Contractor's operation, prior to placement of the HMA.

Unless otherwise approved by the Engineer, use CSS-1, CSS-1h, or Performance Graded (PG) asphalt for tack coat. The CSS-1 and CSS-1h emulsified asphalt may be diluted with water at a rate not to exceed one part water to one part emulsified asphalt. Do not allow the tack coat material to exceed the maximum temperature recommended by the asphalt supplier.

When shown in the Plans, prelevel uneven or broken surfaces over which HMA is to be placed by using an asphalt paver, a motor patrol grader, or by hand raking, as approved by the Engineer.

5-04.3(4)A Crack Sealing

5-04.3(4)A1 General

When the Proposal includes a pay item for crack sealing, seal all cracks ¼ inch in width and greater.

Cleaning: Ensure that cracks are thoroughly clean, dry and free of all loose and foreign material when filling with crack sealant material. Use a hot compressed air lance to dry and warm the pavement surfaces within the crack immediately prior to filling a crack with the sealant material. Do not overheat pavement. Do not use direct flame dryers. Routing cracks is not required.

Sand Slurry: For cracks that are to be filled with sand slurry, thoroughly mix the components and pour the mixture into the cracks until full. Add additional CSS-1 emulsified asphalt to the sand slurry as needed for workability to ensure the mixture will completely fill the crack. Strike off

the sand slurry flush with the existing pavement surface and allow the mixture to cure. Top off cracks that were not completely filled with additional sand slurry. Do not place the HMA overlay until the slurry has fully cured.

Hot Poured Sealant: For cracks that are to be filled with hot poured sealant, apply the material in accordance with these requirements and the manufacturer's recommendations. Furnish a Type 1 Working Drawing of the manufacturer's recommendations to the Engineer prior to the start of work, including the manufacturer's recommended heating time and temperatures, allowable storage time and temperatures after initial heating, allowable reheating criteria, and application temperature range. Confine hot poured sealant material within the crack. Clean any overflow of sealant from the pavement surface. If, in the opinion of the Engineer, the Contractor's method of sealing the cracks with hot poured sealant results in an excessive amount of material on the pavement surface, stop and correct the operation to eliminate the excess material.

5-04.3(4)A2 Crack Sealing Areas Prior to Paving
In areas where HMA will be placed, use sand slurry to fill the cracks.

5-04.3(4)A3 Crack Sealing Areas Not to be Paved
In areas where HMA will not be placed, fill the cracks as follows:

1. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.

2. Cracks greater than 1 inch in width – fill with sand slurry.

5-04.3(4)B Soil Residual Herbicide
Where shown in the Plans, apply one application of an approved soil residual herbicide. Comply with Section 8-02.3(3)B. Complete paving within 48 hours of applying the herbicide.

Use herbicide registered with the Washington State Department of Agriculture for use under pavement. Before use, obtain the Engineer's approval of the herbicide and the proposed rate of application. Include the following information in the request for approval of the material:

1. Brand Name of the Material,

2. Manufacturer,

3. Environmental Protection Agency (EPA) Registration Number,

4. Material Safety Data Sheet, and

5. Proposed Rate of Application.

5-04.3(4)C Pavement Repair
Excavate pavement repair areas and backfill these with HMA in accordance with the details shown in the Plans and as staked. Conduct the excavation operations in a manner that will protect the pavement that is to remain. Repair

pavement not designated to be removed that is damaged as a result of the Contractor's operations to the satisfaction of the Engineer at no cost to the Contracting Agency. Excavate only within one lane at a time unless approved otherwise by the Engineer. Do not excavate more area than can be completely backfilled and compacted during the same shift.

Unless otherwise shown in the Plans or determined by the Engineer, excavate to a depth of 1.0 feet. The Engineer will make the final determination of the excavation depth required.

The minimum width of any pavement repair area shall be 40 inches unless shown otherwise in the Plans. Before any excavation, sawcut the perimeter of the pavement area to be removed unless the pavement in the pavement repair area is to be removed by a pavement grinder.

Excavated materials shall be the property of the Contractor and shall be disposed of in a Contractor-provided site off the Right of Way or used in accordance with Sections 2-02.3(3) or 9-03.21.

Apply a heavy application of tack coat to all surfaces of existing pavement in the pavement repair area, in accordance with Section 5-04.3(4).

Place the HMA backfill in lifts not to exceed 0.35-foot compacted depth. Thoroughly compact each lift by a mechanical tamper or a roller.

5-04.3(5) Producing/Stockpiling Aggregates, RAP, & RAS

Produce aggregate in compliance with Section 3-01. Comply with Section 3-02 for preparing stockpile sites, stockpiling, and removing from stockpile each of the following: aggregates, RAP, and RAS. Provide sufficient storage space for each size of aggregate, RAP and RAS. Fine aggregate or RAP may be uniformly blended with the RAS as a method of preventing the agglomeration of RAS particles. Remove the aggregates, RAP and RAS from stockpile(s) in a manner that ensures minimal segregation when being moved to the HMA plant for processing into the final mixture. Keep different aggregate sizes separated until they have been delivered to the HMA plant.

5-04.3(5)A Stockpiling RAP or RAS for High RAP/Any RAS Mixes

Do not place any RAP or RAS into a stockpile which has been sequestered for a High RAP/Any RAS mix design. Do not incorporate any RAP or RAS into a High RAP/Any RAS mixture from any source other than the stockpile which was sequestered for approval of that particular High RAP/Any RAS mix design.

RAP that is used in a Low RAP/No RAS mix is not required to come from a sequestered stockpile.

5-04.3(6) Mixing

The asphalt supplier shall introduce anti-stripping additive, in the amount designated on the QPL for the mix design, into the asphalt binder prior to shipment to the asphalt mixing plant.

Anti-strip is not required for temporary work that will be removed prior to Physical Completion.

Use asphalt binder of the grade, and from the supplier, in the approved mix design.

Prior to introducing reclaimed materials into the asphalt plant, remove wire, nails, and other foreign material. Discontinue use of the reclaimed material if the Engineer, in their sole discretion, determines the wire, nails, or other foreign material to be excessive.

Size RAP and RAS prior to entering the mixer to provide uniform and thoroughly mixed HMA. If there is evidence of the RAP or RAS not breaking down during the heating and mixing of the HMA, immediately suspend the use of the RAP or RAS until changes have been approved by the Engineer.

After the required amount of mineral materials, RAP, RAS, new asphalt binder and recycling agent have been introduced into the mixer, mix the HMA until complete and uniform coating of the particles and thorough distribution of the asphalt binder throughout the mineral materials, RAP and RAS is ensured.

Upon discharge from the mixer, ensure that the temperature of the HMA does not exceed the optimum mixing temperature shown on the approved Mix Design Report by more than 25°F, or as approved by the Engineer. When a WMA additive is included in the manufacture of HMA, do not heat the WMA additive (at any stage of production including in binder storage tanks) to a temperature higher than the maximum recommended by the manufacturer of the WMA additive.

A maximum water content of 2 percent in the mix, at discharge, will be allowed providing the water causes no problems with handling, stripping, or flushing. If the water in the HMA causes any of these problems, reduce the moisture content.

During the daily operation, HMA may be temporarily held in approved storage facilities. Do not incorporate HMA into the Work that has been held for more than 24 hours after mixing. Provide an easily readable, low bin-level indicator on the storage facility that indicates the amount of material in storage. Waste the HMA in storage when the top level of HMA drops below the top of the cone of the storage facility, except as the storage facility is being emptied at the end of the working shift. Dispose of rejected or waste HMA at no expense to the Contracting Agency.

5-04.3(7) Spreading and Finishing

Do not exceed the maximum nominal compacted depth of any layer in any course, as shown in Table 6, unless approved by the Engineer:

Table 6

Maximum Nominal Compacted Depth of Any Layer		
HMA Class	**Wearing Course**	**Other than Wearing Course**
1 inch	0.35 feet	0.35 feet

¾ and ½ inch	0.30 feet	0.35 feet
⅜ inch	0.15 feet	0.15 feet

Use HMA pavers complying with Section 5-04.3(3) to distribute the mix. On areas where irregularities or unavoidable obstacles make the use of mechanical spreading and finishing equipment impractical, the paving may be done with other equipment or by hand.

When more than one JMF is being utilized to produce HMA, place the material produced for each JMF with separate spreading and compacting equipment. Do not intermingle HMA produced from more than one JMF. Each strip of HMA placed during a work shift shall conform to a single JMF established for the class of HMA specified unless there is a need to make an adjustment in the JMF.

5-04.3(8) Aggregate Acceptance Prior to Incorporation in HMA

Sample aggregate for meeting the requirements of Section 3-04 prior to being incorporated into HMA. (The acceptance data generated for the Section 3-04 acceptance analysis will not be commingled with the acceptance data generated for the Section 5-04.3(9) acceptance analysis.) Aggregate acceptance samples shall be taken as described in Section 3-04. Aggregate acceptance testing will be performed by the Contracting Agency. Aggregate contributed from RAP and/or RAS will not be evaluated under Section 3-04.

For aggregate that will be used in HMA mixture which will be accepted by either Statistical or Nonstatistical Evaluation, the Contracting Agency's acceptance of the aggregate will be based on:

1. Samples taken prior to mixing with asphalt binder, RAP, or RAS;

2. Testing for the materials properties of fracture, uncompacted void content, and sand equivalent;

3. Evaluation by the Contracting Agency in accordance with Section 3-04, including price adjustments as described therein.

For aggregate that will be used in HMA which will be accepted by Visual Evaluation, evaluation in accordance with items 1, 2, and 3 above is at the discretion of the Engineer.

5-04.3(9) HMA Mixture Acceptance

The Contracting Agency will evaluate HMA mixture for acceptance by one of three methods as determined from the criteria in Table 7.

Table 7

Basis of Acceptance for HMA Mixture			
	Visual Evaluation	**Nonstatistical Evaluation**	**Statistical Evaluation**
Criteria for Selecting the	• Commercial HMA placed at any location • Any HMA placed in:	• All HMA mixture of the same class and	• All HMA mixture other than that accepted by

Evaluation Method	○ sidewalks ○ road approaches ○ ditches ○ slopes ○ paths ○ trails ○ gores ○ prelevel ○ temporary pavement[1] ○ pavement repair • Other nonstructural applications of HMA as approved by the Engineer	PG binder grade with a Proposal quantity less than 4,000 tons. (Exclude the tonnage of HMA mixture accepted by Visual Evaluation.)	Visual or Nonstatistical Evaluation

[1] Temporary pavement is HMA that will be removed before Physical Completion of the Contract.

5-04.3(9)A Mixture Acceptance – Test Section

This Section applies to HMA mixture accepted by Statistical Evaluation and mixture accepted by Nonstatistical Evaluation. A test section is not allowed for HMA accepted by Visual Evaluation.

The purpose of a test section is to determine, at the beginning of paving, whether or not the Contractor's mix design and production processes will produce HMA meeting the Contract requirements related to mixture.

Use Table 8 to determine when a test section is required, optional, or not allowed, and to determine when test sections may end for an individual mix design. Each mix design will be evaluated independently for the test section requirements.

Construct HMA mixture test sections at the beginning of paving, using at least 600 tons and a maximum of 1,000 tons or as approved by the Engineer. Each test section shall be constructed in one continuous operation. Each test section shall be considered a lot. The mixture in each test section will be evaluated based on the criteria in Table 9 to determine if test sections for that mix design may stop.

If more than one test section is required, each test section shall be separately by the criteria in table 8 and 9.

Table 8

Criteria for Conducting and Evaluating HMA Mix Texture Sections (For HMA Mixture Accepted by Statistical or Nonstatistical Evaluation)		
	High RAP/Any RAS	**Low RAP/No RAS**
Is Mixture Test Section Optional or Mandatory?	Mandatory[1]	At Contractor's Option[3]
Waiting period after paving the test section.	4 calendar days[2]	4 calendar days[2]
What Must Happen to Stop	Meet "Results	Provide samples

Performing Test Sections?	Required to Stop Performing Test Sections" in Table 9 for High RAP/Any RAS.	and respond to WSDOT test results required by Table 9 for Low RAP/No RAS.

[1]If a mix design has produced an acceptable test section on a previous contract (paved in the same calendar year, from the same plant, using the same JMF) the test section may be waived if approved by the Engineer.

[2]This is to provide time needed by the Contracting Agency to complete testing and the Contractor to adjust the mixture in response to those test results. Paving may resume when this is done.

[3]For HMA with Low RAP/No RAS, which is accepted by Nonstatistical Evaluation, a test section is not allowed.

1

Table 9

Results Required to Stop Performing HMA Mixture Test Sections[1] (For HMA Mixture Accepted by Statistical or Nonstatistical Evaluation)		
Test Property	**Type of HMA**	
	High RAP/Any RAS	**Low RAP/No RAS**
Gradation	Minimum PF_i of 0.95 based on the criteria in Section 5-04.3(9)B4[2]	None[4]
Asphalt Binder	Minimum PF_i of 0.95 based on the criteria in Section 5-04.3(9)B4[2]	None[4]
V_a	Minimum PF_i of 0.95 based on the criteria in Section 5-04.3(9)B4[2]	None[4]
Hamburg Wheel Track Indirect Tensile Strength	Meet requirements of Section 9-03.8(2).[3]	These tests will not be done as part of Test Section.
Sand Equivalent Uncompacted Void Content Fracture	Meet requirements of Section 9-03.8(2).[3]	None[3]

[1]In addition to the requirements of this table, acceptance of the HMA mixture used in each test section is subject to the acceptance criteria and price adjustments for Statistical Evaluation or Non-statistical Evaluation (see Table 7).

[2]Divide the test section lot into three sublots, approximately equal in size. Take one sample from each sublot, and test each sample for all of the properties in the first column.

[3]Take one sample for each test section lot. Test the sample for all of the properties in the first column.

[4]Divide the test section lot into three sublots, approximately equal in size. Take one sample from each sublot, and test each sample for all of the properties in the first column. There are no criteria for discontinuing test sections for these mixes; however, the contractor must comply with Section 5-04.3(11)F before resuming paving.

5-04.3(9)B Mixture Acceptance – Statistical Evaluation

5-04.3(9)B1 Mixture Statistical Evaluation – Lots and Sublots

HMA mixture which is accepted by Statistical Evaluation will be evaluated by the Contracting Agency dividing that HMA tonnage into mixture lots, and each mixture lot will be evaluated using stratified random sampling by the Contracting Agency sub-dividing each mixture lot into mixture sublots. All mixture in a mixture lot shall be of the same mix design. The mixture sublots will be numbered in the order in which the mixture (of a particular mix design) is paved.

Each mixture lot comprises a maximum of 15 mixture sublots, except:

- The final mixture lot of each mix design on the Contract will comprise a maximum of 25 sublots.
- A mixture lot for a test section, which will consist of the three sublots and corresponding test results used in evaluating the test section for gradation, asphalt binder, and Va.

Each mixture sublot shall be approximately uniform in size with the maximum mixture sublot size as specified in Table 10. The quantity of material represented by the final mixture sublot of the project, for each mix design on the project, may be increased to a maximum of two times the mixture sublot quantity calculated. Should a lot accepted by statistical evaluation contain fewer than three sublots, the HMA will be accepted in accordance with nonstatistical evaluation.

Table 10

Maximum HMA Mixture Sublot Size For HMA Accepted by Statistical Evaluation	
HMA Original Plan Quantity (tons)[1]	**Maximum Sublot Size (tons)[2]**
< 20,000	1,000
20,000 to 30,000	1,500
>30,000	2,000

[1] "Plan quantity" means the plan quantity of all HMA of the same class and binder grade which is accepted by Statistical

Evaluation.

[2] The maximum sublot size for each combination of HMA class and binder grade shall be calculated separately.

- For a mixture lot in progress with a mixture CPF less than 0.75, a new mixture lot will begin at the Contractor's request after the Engineer is satisfied that material conforming to the Specifications can be produced. See also Section 5-04.3(11)F.

- If, before completing a mixture lot, the Contractor requests a change to the JMF which is approved by the Engineer, the mixture produced in that lot after the approved change will be evaluated on the basis of the changed JMF, and the mixture produced in that lot before the approved change will be evaluated on the basis of the unchanged JMF; however, the mixture before and after the change will be evaluated in the same lot. Acceptance of subsequent mixture lots will be evaluated on the basis of the changed JMF.

5-04.3(9)B2 Mixture Statistical Evaluation – Sampling

Comply with Section 1-06.2(1).

Samples of HMA mixture which is accepted by Statistical Evaluation will be randomly selected from within each sublot, with one sample per sublot. The Engineer will determine the random sample location using WSDOT Test Method T 716. The Contractor shall obtain the sample when ordered by the Engineer. The Contractor shall sample the HMA mixture in the presence of the Engineer and in accordance with FOP for WAQTC T 168.

5-04.3(9)B3 Mixture Statistical Evaluation – Acceptance Testing

Comply with Section 1-06.2(1).

The Contracting Agency will test the mixture sample from each sublot (including sublots in a test section) for the properties shown in Table 11.

Table 11

Testing Required for each HMA Mixture Sublot		
Test	**Procedure**	**Performed by**
V_a	WSDOT SOP 731	Engineer
Asphalt Binder Content	FOP for AASHTO T 308	Engineer
Gradation: Percent Passing 1½″, 1″, ¾″, ½″, ⅜″, No. 4, No. 8, No. 200	FOP for WAQTC T 27/T 11	Engineer

The mixture samples and tests taken for the purpose of determining acceptance of the test section (as described in Section 5-04.3(9)A)

shall also be used as the test results for acceptance of the mixture described in 5-04.3(9)B3, 5-04.3(9)B4, 5-04.3(9)B5, and 5-04.3(9)B6.

5-04.3(9)B4 Mixture Statistical Evaluation – Pay Factors

Comply with Section 1-06.2(2).

The Contracting Agency will determine a pay factor (PF_i) for each of the properties in Table 11, for each mixture lot, using the quality level analysis in Section 1-06.2(2)D. For Gradation, a pay factor will be calculated for each of the sieve sizes listed in Table 11 which is equal to or smaller than the maximum allowable aggregate size (100 percent passing sieve) of the HMA mixture. The USL and LSL shall be calculated using the Job Mix Formula Tolerances (for Statistical Evaluation) in Section 9-03.8(7).

If a constituent is not measured in accordance with these Specifications, its individual pay factor will be considered 1.00 in calculating the Composite Pay Factor (CPF).

5-04.3(9)B5 Mixture Statistical Evaluation – Composite Pay Factors (CPF)

Comply with Section 1-06.2(2).

In accordance with Section 1-06.2(2)D4, the Contracting Agency will determine a Composite Pay Factor (CPF) for each mixture lot from the pay factors calculated in Section 5-04.3(9)B4, using the price adjustment factors in Table 12. Unless otherwise specified, the maximum CPF for HMA mixture shall be 1.05.

Table 12

HMA Mixture Price Adjustment Factors	
Constituent	**Factor "f"**
All aggregate passing: 1½″, 1″, ¾″, ½″, ⅜″ and No.4 sieves	2
All aggregate passing No. 8 sieve	15
All aggregate passing No. 200 sieve	20
Asphalt binder	40
Air Voids (V_a)	20

5-04.3(9)B6 Mixture Statistical Evaluation – Price Adjustments

For each HMA mixture lot, a Job Mix Compliance Price Adjustment will be determined and applied, as follows:

$$JMCPA = [0.60 \times (CPF - 1.00)] \times Q \times UP$$

Where

JMCPA = Job Mix Compliance Price Adjustment for a given lot of mixture ($)
CPF = Composite Pay factor for a given lot of mixture (maximum is 1.05)
Q = Quantity in a given lot of mixture (tons)

UP = Unit price of the HMA in a given lot of mixture ($/ton)

5-04.3(9)B7 Mixture Statistical Evaluation – Retests

The Contractor may request that a mixture sublot be retested. To request a retest, submit a written request to the Contracting Agency within 7 calendar days after the specific test results have been posted to the website or emailed to the Contractor, whichever occurs first. The Contracting Agency will send a split of the original acceptance sample for testing by the Contracting Agency to either the Region Materials Laboratory or the State Materials Laboratory as determined by the Engineer. The Contracting Agency will not test the split of the sample with the same equipment or by the same tester that ran the original acceptance test. The sample will be tested for a complete gradation analysis, asphalt binder content, and V_a, and the results of the retest will be used for the acceptance of the HMA mixture in place of the original mixture sublot sample test results. The cost of testing will be deducted from any monies due or that may come due the Contractor under the Contract at the rate of $250 per sample.

5-04.3(9)C Mixture Acceptance – Nonstatistical Evaluation

5-04.3(9)C1 Mixture Nonstatistical Evaluation – Lots, Sublots, Sampling, Test Section, Testing, Retests

For HMA mixture accepted by Nonstatistical Evaluation, comply with the requirements in Table 13:

Table 13

Nonstatistical Evaluation Lots, Sublots, Sampling, Test Section, Testing, Retests		
Comply with the Specifications Below		Comply with the Requirements of the Section for:
Test Section	Section 5-04.3(9)A	Nonstatistical Evaluation
Lots and Sublots	Section 5-04.3(9)B1	Statistical Evaluation
Sampling	Section 5-04.3(9)B2	Statistical Evaluation
Acceptance Tests	Section 5-04.3(9)B3	Statistical Evaluation
Retests	Section 5-04.3(9)B7	Statistical Evaluation

5-04.3(9)C2 Mixture Nonstatistical Evaluation - Acceptance

Each mixture lot of HMA produced under Nonstatistical Evaluation, for which all sublot acceptance test results (required by Table 13) fall within the Job Mix Formula Tolerances for Nonstatistical Evaluation in Section 9-03.8(7), will be accepted at the unit Contract price with no further evaluation.

5-04.3(9)C3 Mixture Nonstatistical Evaluation – Out of Tolerance Procedures

Each mixture lot of HMA produced under Nonstatistical Evaluation, for which any sublot acceptance test result (required by Table 13) falls outside of the Job Mix Formula Tolerances for Nonstatistical Evaluation in Section 9-03.8(7), shall be evaluated in accordance with

Section 1-06.2 and Table 14 to determine a Job Mix Compliance Price Adjustment.

Table 14

Nonstatistical Evaluation – Out of Tolerance Procedures	
Comply with the Following[1]	
Pay Factors[2]	Section 5-04.3(9)B4
Composite Pay Factors[3]	Section 5-04.3(9)B5
Price Adjustments	Section 5-04.3(9)B6

[1]When less than three mixture sublots exist, backup samples of the existing mixture sublots shall be tested to provide a minimum of three sets of results for evaluation. If enough backup samples are not available, the Contracting Agency will select core sample locations from the Roadway in accordance with WSDOT Test Method T 716, take cores from the roadway in accordance with WSDOT SOP 734, and test the cores in accordance with WSDOT SOP 737.

[2]The Nonstatistical Evaluation tolerance limits in Section 9-03.8(7) will be used in the calculation of the PF_i.

[3]The maximum CPF shall be 1.00.

5-04.3(9)D Mixture Acceptance – Visual Evaluation

Visual Evaluation of HMA mixture will be by visual inspection by the Engineer or, in the sole discretion of the Engineer, the Engineer may sample and test the mixture.

5-04.3(9)D1 Mixture Visual Evaluation – Lots, Sampling, Testing, Price Adjustments

HMA mixture accepted by Visual Evaluation will not be broken into lots unless the Engineer determines that testing is required. When that occurs, the Engineer will identify the limits of the questionable HMA mixture, and that questionable HMA mixture shall constitute a lot. Then, the Contractor will take samples from the truck, or the Engineer will take core samples from the roadway at a minimum of three random locations from within the lot, selected in accordance with WSDOT Test Method T 716, taken from the roadway in accordance with WSDOT SOP 734, and tested in accordance with WSDOT SOP 737. The Engineer will test one of the samples for all constituents in Section 5-04.3(9)B3. If all constituents from that test fall within the Job Mix Formula Tolerances (for Visual Evaluation) in Section 9-03.8(7), the lot will be accepted at the unit Contract price with no further evaluation.

When one or more constituents fall outside those tolerance limits, the other samples will be tested for all constituents in Section 5-04.3(9)B3, and a Job Mix Compliance Price Adjustment will be calculated in accordance with Table 15.

Table 15

Visual Evaluation – Out of Tolerance Procedures
Comply with the Following

Pay Factors[1]	Section 5-04.3(9)B4
Composite Pay Factors[2]	Section 5-04.3(9)B5
Price Adjustments	Section 5-04.3(9)B6

[1]The Visual Evaluation tolerance limits in Section 9-03.8(7) will be used in the calculation of the PF_i.

[2]The maximum CPF shall be 1.00.

5-04.3(9)E Mixture Acceptance – Notification of Acceptance Test Results

The results of all mixture acceptance testing and the Composite Pay Factor (CPF) of the lot after three sublots have been tested will be available to the Contractor through The Contracting Agency's website.

The Contracting Agency will endeavor to provide written notification (via email to the Contractor's designee) of acceptance test results through its web-based materials testing system Statistical Analysis of Materials (SAM) within 24 hours of the sample being made available to the Contracting Agency. However, the Contractor agrees:

1. Quality control, defined as the system used by the Contractor to monitor, assess, and adjust its production processes to ensure that the final HMA mixture will meet the specified level of quality, is the sole responsibility of the Contractor.

2. The Contractor has no right to rely on any testing performed by the Contracting Agency, nor does the Contractor have any right to rely on timely notification by the Contracting Agency of the Contracting Agency's test results (or statistical analysis thereof), for any part of quality control and/or for making changes or correction to any aspect of the HMA mixture.

3. The Contractor shall make no claim for untimely notification by the Contracting Agency of the Contracting Agency's test results or statistical analysis.

5-04.3(10) HMA Compaction Acceptance

For all HMA, the Contractor shall comply with the General Compaction Requirements in Section 5-04.3(10)A. The Contracting Agency will evaluate all HMA for compaction compliance with one of the following - Statistical Evaluation, Visual Evaluation, or Test Point Evaluation - determined by the criteria in Table 16:

Table 16

Criteria for Determining Method of Evaluation for HMA Compaction[1]		
Statistical Evaluation of HMA Compaction is Required For:	**Visual Evaluation of HMA Compaction is Required For:**	**Test Point Evaluation of HMA Compaction is Required For:**

• Any HMA for which the specified course thickness is greater than 0.10 feet, and the HMA is in: ○ traffic lanes, including but not limited to: • ramp lanes • truck climbing lanes • weaving lanes • speed change lanes	• "HMA for Preleveling…" • "HMA for Pavement Repair…"	• Any HMA not meeting the criteria for Statistical Evaluation or Visual Evaluation

[1]This table applies to all HMA, and shall be the sole basis for determining the acceptance method for compaction.

The Contracting Agency may, at its sole discretion, evaluate any HMA for compliance with the Cyclic Density requirements of Section 5-04.3(10)B.

5-04.3(10)A HMA Compaction – General Compaction Requirements

Immediately after the HMA has been spread and struck off, and after surface irregularities have been adjusted, thoroughly and uniformly compact the mix. The completed course shall be free from ridges, ruts, humps, depressions, objectionable marks, and irregularities and shall conform to the line, grade, and cross-section shown in the Plans. If necessary, alter the JMF in accordance with Section 9-03.8(7) to achieve desired results.

Compact the mix when it is in the proper condition so that no undue displacement, cracking, or shoving occurs. Compact areas inaccessible to large compaction equipment by mechanical or hand tampers. Remove HMA that becomes loose, broken, contaminated, shows an excess or deficiency of asphalt, or is in any way defective. Replace the removed material with new HMA, and compact it immediately to conform to the surrounding area.

The type of rollers to be used and their relative position in the compaction sequence shall generally be the Contractor's option, provided the specified densities are attained. An exception shall be that pneumatic tired rollers shall be used for compaction of the wearing course beginning October 1st of any year through March 31st of the following year. Coverage with a steel wheel roller may precede pneumatic tired rolling. Unless otherwise approved by the Engineer, operate rollers in the static mode when the internal temperature of the mix is less than 175°F. Regardless of mix temperature, do not operate a roller in a mode that results in checking or cracking of the mat.

On bridge decks and on the five feet of roadway approach immediately adjacent to the end of bridge/back of pavement seat, operate rollers in static mode only.

5-04.3(10)B HMA Compaction – Cyclic Density

Low cyclic density areas are defined as spots or streaks in the pavement that are less than 90 percent of the theoretical maximum density. At the Engineer's discretion, the Engineer may evaluate the HMA pavement for low cyclic density, and when doing so will follow WSDOT SOP 733. A $500 Cyclic Density Price Adjustment will be assessed for any 500-foot section with two or more density readings below 90 percent of the theoretical maximum density.

5-04.3(10)C HMA Compaction Acceptance – Statistical Evaluation

HMA compaction which is accepted by Statistical Evaluation will be based on acceptance testing performed by the Contracting Agency, and statistical analysis of those acceptance tests results. This will result in a Compaction Price Adjustment.

5-04.3(10)C1 HMA Compaction Statistical Evaluation – Lots and Sublots

HMA compaction which is accepted by Statistical Evaluation will be evaluated by the Contracting Agency dividing the project into compaction lots, and each compaction lot will be evaluated using stratified random sampling by the Contracting Agency sub-dividing each compaction lot into compaction sublots. All mixture in any individual compaction lot shall be of the same mix design. The compaction sublots will be numbered in the order in which the mixture (of a particular mix design) is paved.

Each compaction lot comprises a maximum of 15 compaction sublots, except for the final compaction lot of each mix design on the Contract, which comprises a maximum of 25 sublots.

Each compaction sublot shall be uniform in size as shown in Table 17, except that the last compaction sublot of each day may be increased to a maximum of two times the compaction sublot quantity calculated. Minor variations in the size of any sublot shall not be cause to invalidate the associated test result.

Table 17

HMA Compaction Sublot Size	
HMA Original Plan Quantity (tons)[1]	Compaction Sublot Size (tons)
<20,000	100
20,000 to 30,000	150
>30,000	200

[1] In determining the plan quantity tonnage, do not include any tons accepted by test point evaluation.

The following will cause one compaction lot to end prematurely and a new compaction lot to begin:

- For a compaction lot in progress with a compaction CPF less than 0.75, a new compaction lot will begin at the Contractor's request after the Engineer is satisfied that

material conforming to the Specifications can be produced. See also Section 5-04.3(11)F.

5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance Testing

Comply with Section 1-06.2(1).

The location of HMA compaction acceptance tests will be randomly selected by the Contracting Agency from within each sublot, with one test per sublot. The Contracting Agency will determine the random sample location using WSDOT Test Method T 716.

Use Table 18 to determine compaction acceptance test procedures and to allocate compaction acceptance sampling and testing responsibilities between the Contractor and the Contracting Agency. Roadway cores shall be taken or nuclear density testing shall occur after completion of the finish rolling, prior to opening to traffic, and on the same day that the mix is placed.

Table 18

HMA Compaction Acceptance Testing Procedures and Responsibilities			
	When Contract Includes Bid Item "Roadway Cores"	When Contract Does Not Include Bid Item "Roadway Cores"	
Basis for Test:	Roadway Cores	Roadway Cores[3]	Nuclear Density Gauge[3]
In-Place Density Determined by:	Contractor shall take cores[1] using WSDOT SOP 734[2] — Contracting Agency will determine core density using FOP for AASHTO T 166	Contracting Agency will take cores[1] using WSDOT SOP 734 — Contracting Agency will determine core density using FOP for AASHTO T 166	Contracting Agency, using FOP for WAQTC TM 8
Theoretical Maximum Density Determined by:	Contracting Agency, using FOP for AASHTO T 209		
Rolling Average of Theoretical Maximum Densities Determined by:	Contracting Agency, using WSDOT SOP 729		
Percent	Contracting	Contracting	Contracting

Compaction in Each Sublot Determined by:	Agency, using WSDOT SOP 736	Agency, using WSDOT SOP 736	Agency, using FOP for WAQTC TM 8

[1]The core diameter shall be 4-inches unless otherwise approved by the Engineer.

[2]The Contractor shall take the core samples in the presence of the Engineer, at locations designated by the Engineer, and deliver the core samples to the Contracting Agency.

[3]The Contracting Agency will determine, in its sole discretion, whether it will take cores or use the nuclear density gauge to determine in-place density. Exclusive reliance on cores for density acceptance is generally intended for small paving projects and is not intended as a replacement for nuclear gauge density testing on typical projects.

When using the nuclear density gauge for acceptance testing of pavement density, the Engineer will follow WSDOT SOP 730 for correlating the nuclear gauge with HMA cores. When cores are required for the correlation, coring and testing will be by the Contracting Agency. When a core is taken for gauge correlation at the location of a sublot, the relative density of the core will be used for the sublot test result and is exempt from retesting.

5-04.3(10)C3 HMA Statistical Compaction – Price Adjustments

For each HMA compaction lot (that is accepted by Statistical Evaluation) which has less than three compaction sublots, for which all compaction sublots attain a minimum of 91 percent compaction determined in accordance with FOP for WAQTC TM 8 (or WSDOT SOP 736 when provided by the Contract), the HMA will be accepted at the unit Contract price with no further evaluation.

For each HMA compaction lot (that is accepted by Statistical Evaluation) which does not meet the criteria in the preceding paragraph, the compaction lot shall be evaluated in accordance with Section 1-06.2(2) to determine the appropriate Compaction Price Adjustment (CPA). All of the test results obtained from the acceptance samples from a given compaction lot shall be evaluated collectively. Additional testing by either a nuclear density gauge or cores will be completed as required to provide a minimum of three tests for evaluation.

For the statistical analysis in Section 1-06.2, use the following values:

x = Percent compaction of each sublot
USL = 100
LSL= 91

Each CPA will be determined as follows:

$$CPA = [0.40 \times (CPF - 1.00)] \times Q \times UP$$

Where

CPA = Compaction Price Adjustment for the compaction lot ($)
CPF = Composite Pay Factor for the compaction lot (maximum is 1.05)
Q = Quantity in the compaction lot (tons)
UP = Unit price of the HMA in the compaction lot ($/ton)

5-04.3(10)C4 HMA Statistical Compaction – Requests for Retesting

For a compaction sublot that has been tested with a nuclear density gauge that did not meet the minimum of 91 percent of the theoretical maximum density in a compaction lot with a CPF below 1.00 and thus subject to a price reduction or rejection, the Contractor may request that a core, taken at the same location as the nuclear density test, be used for determination of the relative density of the compaction sublot. The relative density of the core will replace the relative density determined by the nuclear density gauge for the compaction sublot and will be used for calculation of the CPF and acceptance of HMA compaction lot. When cores are taken by the Contracting Agency at the request of the Contractor, they shall be requested by noon of the next workday after the test results for the compaction sublot have been provided or made available to the Contractor. Traffic control shall be provided by the Contractor as requested by the Engineer. Failure by the Contractor to provide the requested traffic control will result in forfeiture of the request for retesting. When the CPF for the compaction lot based on the results of the cores is less than 1.00, the Contracting Agency will deduct the cost for the coring from any monies due or that may become due the Contractor under the Contract at the rate of $200 per core and the Contractor shall pay for the cost of the traffic control.

5-04.3(10)D HMA Compaction – Visual Evaluation

Visual Evaluation will be the basis of acceptance for compaction of the Bid items "HMA for Pavement Repair Cl. ___ PG ___"and "HMA for Prelevelling Class___ PG___". This HMA shall be thoroughly compacted to the satisfaction of the Engineer. HMA that is used to prelevel wheel ruts shall be compacted with a pneumatic tire roller.

5-04.3(10)E HMA Compaction – Test Point Evaluation

When compaction acceptance is by Test Point Evaluation, compact HMA based on a test point evaluation of the compaction train. Perform the test point evaluation in accordance with instructions from the Engineer. The number of passes with an approved compaction train, required to attain the maximum test point density, shall be used on all subsequent paving.

5-04.3(10)F HMA Compaction Acceptance – Notification of Acceptance Test Results

The obligations and responsibilities for notifying the Contractor of compaction acceptance test results are the same as for mixture acceptance test results. See Section 5-04.3(9)E.

5-04.3(11) Reject Work

This Section applies to HMA and all requirements related to HMA (except aggregates prior to being incorporated into HMA). For rejection of aggregate prior to its incorporation into HMA refer to Section 3-04.

5-04.3(11)A Reject Work – General

Work that is defective or does not conform to Contract requirements shall be rejected.

5-04.3(11)B Rejection by Contractor

The Contractor may, prior to acceptance sampling and testing, elect to remove any defective material and replace it with new material. Any such new material will be sampled, tested, and evaluated for acceptance.

5-04.3(11)C Rejection Without Testing (Mixture or Compaction)

The Engineer may, without sampling, reject any batch, load, or section of Roadway that appears defective. Material rejected before placement shall not be incorporated into the pavement.

No payment will be made for the rejected materials or the removal of the materials unless the Contractor requests the rejected material to be tested. If the Contractor requests testing, acceptance will be by Statistical Evaluation, and a minimum of three samples will be obtained and tested. When uncompacted material is required for testing but not available, the Engineer will determine random sample locations on the roadway in accordance with WSDOT Test Method T 716, take cores in accordance with WSDOT SOP 734, and test the cores in accordance with WSDOT SOP 737.

If the CPF for the rejected material is less than 0.75, no payment will be made for the rejected material; in addition, the cost of sampling and testing shall be borne by the Contractor. If the CPF is greater than or equal to 0.75, the cost of sampling and testing will be borne by the Contracting Agency. If the material is rejected before placement and the CPF is greater than or equal to 0.75, compensation for the rejected material will be at a CPF of 0.75. If rejection occurs after placement and the CPF is greater than or equal to 0.75, compensation for the rejected material will be at the calculated CPF with an addition of 25 percent of the unit Contract price added for the cost of removal and disposal.

5-04.3(11)D Rejection – A Partial Sublot (Mixture or Compaction)

In addition to the random acceptance sampling and testing, the Engineer may also isolate from a mixture or compaction sublot any material that is suspected of being defective in relative density, gradation or asphalt binder content. Such isolated material will not include an original sample location. The Contracting Agency will obtain a minimum of three random samples of the suspect material and perform the testing. When uncompacted material is required for testing but is not available, the Engineer will select random sample locations on the roadway in accordance with WSDOT Test Method T 716, take cores samples in accordance with WSDOT SOP 734, and test the material in accordance

with WSDOT SOP 737. The material will then be statistically evaluated as an independent lot in accordance with Section 1-06.2(2).

5-04.3(11)E Rejection – An Entire Sublot (Mixture or Compaction)

An entire mixture or compaction sublot that is suspected of being defective may be rejected. When this occurs, a minimum of two additional random samples from this sublot will be obtained. When uncompacted material is required for the additional samples but the material has been compacted, the Contracting Agency will take and test cores from the roadway as described in Section 5-04.3(11)D. The additional samples and the original sublot will be evaluated as an independent lot in accordance with Section 1-06.2(2).

5-04.3(11)F Rejection - A Lot in Progress (Mixture or Compaction)

The Contractor shall shut down operations and shall not resume HMA placement until such time as the Engineer is satisfied that material conforming to the Specifications can be produced when:

1. the Composite Pay Factor (CPF) of a mixture or compaction lot in progress drops below 1.00 and the Contractor is taking no corrective action, or

2. the Pay Factor (PF_i) for any constituent of a mixture or compaction lot in progress drops below 0.95 and the Contractor is taking no corrective action, or

3. either the PF_i for any constituent (or the CPF) of a mixture or compaction lot in progress is less than 0.75.

5-04.3(11)G Rejection – An Entire Lot (Mixture or Compaction)

An entire lot with a CPF of less than 0.75 will be rejected.

5-04.3(12) Joints

5-04.3(12)A Transverse Joints

Conduct operations such that placement of the top or wearing course is a continuous operation or as close to continuous as possible. Unscheduled transverse joints will be allowed, but the roller may pass over the unprotected end of the freshly laid HMA only when the placement of the course is discontinued for such a length of time that the HMA will cool below compaction temperature. When the Work is resumed, cut back the previously compacted HMA to produce a slightly beveled edge for the full thickness of the course.

Construct a temporary wedge of HMA on a 50H:1V where a transverse joint as a result of paving or planing is open to traffic. Separate the HMA in the temporary wedge from the permanent HMA upon which it is placed by strips of heavy wrapping paper or other methods approved by the Engineer. Remove the wrapping paper and trim the joint to a slightly beveled edge for the full thickness of the course prior to resumption of paving.

Waste the material that is cut away and place new HMA against the cut. Use rollers or tamping irons to seal the joint.

5-04.3(12)B Longitudinal Joints

Offset the longitudinal joint in any one course from the course immediately below by not more than 6 inches nor less than 2 inches. Locate all longitudinal joints constructed in the wearing course at a lane line or an edge line of the Traveled Way. Construct a notched wedge joint along all longitudinal joints in the wearing surface of new HMA unless otherwise approved by the Engineer. The notched wedge joint shall have a vertical edge of not less than the maximum aggregate size nor more than ½ of the compacted lift thickness, and then taper down on a slope not steeper than 4H:1V. Uniformly compact the sloped portion of the HMA notched wedge joint.

On one-lane ramps a longitudinal joint may be constructed at the center of the traffic lane, subject to approval by the Engineer, if:

1. The ramp must remain open to traffic, or

2. The ramp is closed to traffic and a hot-lap joint is constructed.

    a. Two paving machines shall be used to construct the hot-lap joint.

    b. The pavement within 6 inches of the hot-lap joint will not be excluded from random location selection for compaction testing.

    c. Construction equipment other than rollers shall not operate on any uncompacted HMA.

When HMA is placed adjacent to cement concrete pavement, construct longitudinal joints between the HMA and the cement concrete pavement. Saw the joint to the dimensions shown on Standard Plan A-40.10 and fill with joint sealant meeting the requirements of Section 9-04.2.

5-04.3(13) Surface Smoothness

The completed surface of all courses shall be of uniform texture, smooth, uniform as to crown and grade, and free from defects of all kinds. The completed surface of the wearing course shall not vary more than ⅛ inch from the lower edge of a 10-foot straightedge placed on the surface parallel to the centerline. The transverse slope of the completed surface of the wearing course shall vary not more than ¼ inch in 10 feet from the rate of transverse slope shown in the Plans.

When deviations in excess of the above tolerances are found that result from a high place in the HMA, correct the pavement surface by one of the following methods:

1. Remove material from high places by grinding with an approved grinding machine, or

2. Remove and replace the wearing course of HMA, or

3. By other method approved by the Engineer.

Correct defects until there are no deviations anywhere greater than the allowable tolerances.

Deviations in excess of the above tolerances that result from a low place in the HMA and deviations resulting from a high place where corrective action, in the opinion of the Engineer, will not produce satisfactory results will be accepted with a price adjustment. The Engineer shall deduct from monies due or that may become due to the Contractor the sum of $500.00 for each and every section of single traffic lane 100 feet in length in which any excessive deviations described above are found.

When portland cement concrete pavement is to be placed on HMA, the surface tolerance of the HMA shall be such that no surface elevation lies above the Plan grade minus the specified Plan depth of portland cement concrete pavement. Prior to placing the portland cement concrete pavement, bring any such irregularities to the required tolerance by grinding or other means approved by the Engineer.

When utility appurtenances such as manhole covers and valve boxes are located in the Traveled Way, pave the Roadway before the utility appurtenances are adjusted to the finished grade.

5-04.3(14) Planing Bituminous Pavement

Plane in such a manner that the underlying pavement is not torn, broken, or otherwise damaged by the planing operation. Delamination or raveling of the underlying pavement will not be construed as damage due to the Contractor's operations. Pavement outside the limits shown in the Plans or designated by the Engineer that is damaged by the Contractor's operations shall be repaired to the satisfaction of the Engineer at no additional cost to the Contracting Agency.

For mainline planing operations, use equipment with automatic controls and with sensors for either or both sides of the equipment. The controls shall be capable of sensing the grade from an outside reference line, or a mat-referencing device. The automatic controls shall have a transverse slope controller capable of maintaining the mandrel at the desired transverse slope (expressed as a percentage) within plus or minus 0.1 percent.

Remove all loose debris from the planed surface before opening the planed surface to traffic. The planings and other debris resulting from the planing operation shall become the property of the Contractor and be disposed of in accordance with Section 2-03.3(7)C, or as otherwise allowed by the Contract.

5-04.3(15) Sealing Pavement Surfaces

Apply a fog seal where shown in the Plans. Construct the fog seal in accordance with Section 5-02.3. Unless otherwise approved by the Engineer, apply the fog seal prior to opening to traffic.

5-04.3(16) HMA Road Approaches

Construct HMA approaches at the locations shown in the Plans or where staked by the Engineer, in accordance with Section 5-04.

5-04.4 Measurement

HMA Cl. ___ PG ___, HMA for ___ Cl. ___ PG ___, and Commercial HMA will be measured by the ton in accordance with Section 1-09.2, with no deduction being made for the weight of asphalt binder, mineral filler, or any other component of the HMA. If the Contractor elects to remove and replace HMA as allowed by Section 5-04.3(11), the material removed will not be measured.

Roadway cores will be measured per each for the number of cores taken.

Crack Sealing-LF will be measured by the linear foot along the line of the crack.

Soil residual herbicide will be measured by the mile for the stated width to the nearest 0.01 mile or by the square yard, whichever is designated in the Proposal.

Pavement repair excavation will be measured by the square yard of surface marked prior to excavation.

Asphalt for fog seal will be measured by the ton, as provided in Section 5-02.4.

Longitudinal joint seals between the HMA and cement concrete pavement will be measured by the linear foot along the line and slope of the completed joint seal.

Planing bituminous pavement will be measured by the square yard.

Temporary pavement marking will be measured by the linear foot as provided in Section 8-23.4.

Water will be measured by the M gallon as provided in Section 2-07.4.

5-04.5 Payment

Payment will be made for each of the following Bid items that are included in the Proposal:

"HMA Cl. ___ PG ___", per ton.
"HMA for Approach Cl. ___ PG ___", per ton.
"HMA for Preleveling Cl. ___ PG ___", per ton.
"HMA for Pavement Repair Cl. ___ PG ___", per ton.
"Commercial HMA", per ton.

The unit Contract price per ton for "HMA Cl. ___ PG ___", "HMA for Approach Cl. ___ PG ___", "HMA for Preleveling Cl. ___ PG ___", "HMA for Pavement Repair Cl. ___ PG ___", and "Commercial HMA" shall be full compensation for all costs, including anti-stripping additive, incurred to carry out the requirements of Section 5-04 except for those costs included in other items which are included in this Subsection and which are included in the Proposal.

"Crack Sealing-FA", by force account.

"Crack Sealing-FA" will be paid for by force account as specified in Section 1-09.6. For the purpose of providing a common Proposal for all Bidders, the Contracting Agency has entered an amount in the Proposal to become a part of the total Bid by the Contractor.

"Crack Sealing-LF", per linear foot.
The unit Contract price per linear foot for "Crack Sealing-LF" shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(4)A.

"Soil Residual Herbicide ____ ft. Wide", per mile, or
"Soil Residual Herbicide", per square yard.
The unit Contract price per mile or per square yard for "Soil Residual Herbicide" shall be full payment for all costs incurred to obtain, provide and install herbicide in accordance with Section 5-04.3(4)B.

"Pavement Repair Excavation Incl. Haul", per square yard.
The unit Contract price per square yard for "Pavement Repair Excavation Incl. Haul" shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(4)C with the exception, however, that all costs involved in the placement of HMA shall be included in the unit Contract price per ton for "HMA for Pavement Repair Cl. ___ PG ___", per ton.

"Asphalt for Fog Seal", per ton.
Payment for "Asphalt for Fog Seal" is described in Section 5-02.5.

"Longitudinal Joint Seal", per linear foot.
The unit Contract price per linear foot for "Longitudinal Joint Seal" shall be full payment for all costs incurred to construct the longitudinal joint between HMA and cement concrete pavement, as described in Section 5-04.3(12)B.

"Planing Bituminous Pavement", per square yard.
The unit Contract price per square yard for "Planing Bituminous Pavement" shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(14).

"Temporary Pavement Marking", per linear foot.
Payment for "Temporary Pavement Marking" is described in Section 8-23.5.

"Water", per M gallon.
Payment for "Water" is described in Section 2-07.5.

"Job Mix Compliance Price Adjustment", by calculation.
"Job Mix Compliance Price Adjustment" will be calculated and paid for as described in Section 5-04.3(9)B6, 5-04.3(9)C3, and 5-04.3(9)D1.

"Compaction Price Adjustment", by calculation.
"Compaction Price Adjustment" will be calculated and paid for as described in Section 5-04.3(10)C3.

"Roadway Core", per each.

The Contractor's costs for all other Work associated with the coring (e.g., traffic control) shall be incidental and included within the unit Bid price per each and no additional payments will be made.

"Cyclic Density Price Adjustment", by calculation.
"Cyclic Density Price Adjustment" will be calculated and paid for as described in Section 5-04.3(10)B.

Section 6-02, Concrete Structures
April 4, 2016

6-02.3(2)A Contractor Mix Design
The following new sentence is inserted after the first sentence of the third paragraph:

The mix design submittal shall also include test results no older than one year showing that the Aggregates do not contain Deleterious Substances in accordance with Section 9-03.

6-02.3(2)A1 Contractor Mix Design for Concrete Class 4000D
The following new sentence is inserted after the second sentence of the last paragraph:

Mix designs using shrinkage reducing admixture shall state the specific quantity required.

The following new sentence is inserted before the last sentence of the last paragraph:

Testing samples of mixes using shrinkage reducing admixture shall use the admixture amount specified in the mix design submittal.

6-02.3(2)B Commercial Concrete
The last sentence of the first paragraph is revised to read:

Commercial concrete does not require mix design or source approvals for cement, aggregate, and other admixtures.

6-02.3(26)D2 Test Block Dimensions
The first sentence is revised to read:

The dimensions of the test block perpendicular to the tendon in each direction shall be the smaller of twice the minimum edge distance or the minimum spacing specified by the special anchorage device manufacturer, with the stipulation that the concrete cover over any confining reinforcing steel or supplementary skin reinforcement shall be appropriate for the project-specific application and circumstances.

6-02.3(27)A Use of Self-Consolidating Concrete for Precast Units
Item number 2 of the first paragraph is revised to read:

2. Precast reinforced concrete three-sided structures, box culverts and split box culverts in accordance with Section 7-02.3(6).

Section 6-14, Geosynthetic Retaining Walls
January 4, 2016

6-14.5 Payment

The bid item "Concrete Fascia Panel", per square foot, and the paragraph following this bid item are revised to read:

"Concrete Fascia Panel For Geosynthetic Wall", per square foot.

All costs in connection with constructing the concrete fascia panels as specified shall be included in the unit Contract price per square foot for "Concrete Fascia Panel For Geosynthetic Wall", including all steel reinforcing bars, premolded joint filler, polyethylene bond breaker strip, joint sealant, PVC pipe for weep holes, exterior surface finish, and pigmented sealer (when specified), constructing and placing the concrete footing, edge beam, anchor beam, anchor rod assembly, and backfill.

Section 6-19, Shafts
January 4, 2016

6-19.4 Measurement

The first paragraph is revised to read:

Soil excavation for shaft, including haul, will be measured by the cubic yards of shaft excavated. The cubic yards will be computed using the shaft diameter, top of shaft elevation and bottom of shaft elevation shown in the Plans, less all rock excavation measured as specified for rock excavation. Excavation between the existing ground line and the top of shaft elevation is considered incidental to soil excavation for shaft and will not be measured.

The second paragraph is deleted.

6-19.5 Payment

The paragraph following the bid item "Soil Excavation For Shaft Including Haul", per cubic yard is revised to read:

The unit Contract price per cubic yard for "Soil Excavation For Shaft Including Haul" shall be full pay for performing the work as specified, including all costs in connection with furnishing, mixing, placing, maintaining, containing, collecting, and disposing of all mineral, synthetic, and water slurry, and disposing of groundwater collected by the shaft excavation, and the incidental excavation of soils between the top of shaft elevation shown in the Plans and the existing ground line.

Section 8-01, Erosion Control and Water Pollution Control
April 4, 2016

8-01.2 Materials

This section is supplemented with the following new paragraph:

Recycled concrete, in any form, shall not be used for any Work defined in Section 8-01.

8-01.3(8) Street Cleaning

This section is revised to read:

Self-propelled street sweepers shall be used to remove and collect sediment and other debris from the Roadway, whenever required by the Engineer. The street sweeper shall effectively collect these materials and prevent them from being washed or blown off the Roadway or into waters of the State. Street sweepers shall not generate fugitive dust and shall be designed and operated in compliance with applicable air quality standards.

Material collected by the street sweeper shall be disposed of in accordance with Section 2-03.3(7)C.

Street washing with water will require the concurrence of the Engineer.

Section 8-10, Guide Posts
January 4, 2016

8-10.3 Construction Requirements

The last sentence of the second paragraph is deleted.

Section 8-22, Pavement Marking
January 4, 2016

8-22.4 Measurement

The first two sentences of the fourth paragraph are revised to read:

The measurement for “Painted Wide Lane Line”, “Plastic Wide Lane Line”, “Profiled Plastic Wide Lane Line”, “Painted Barrier Center Line”, “Plastic Barrier Center Line”, “Painted Stop Line”, “Plastic Stop Line”, “Painted Wide Dotted Entry Line”, or “Plastic Wide Dotted Entry Line” will be based on the total length of each painted, plastic or profiled plastic line installed. No deduction will be made for the unmarked area when the marking includes a broken line such as, wide broken lane line, drop lane line, wide dotted lane line or wide dotted entry line.

8-22.5 Payment

The following two new Bid items are inserted after the Bid item “Plastic Crosshatch Marking”, per linear foot:

“Painted Wide Dotted Entry Line”, per linear foot.

“Plastic Wide Dotted Entry Line”, per linear foot.

Section 9-03, Aggregates
April 4, 2016

9-03.1(1) General Requirements

This first paragraph is supplemented with the following:

Reclaimed aggregate may be used if it complies with the specifications for Portland Cement Concrete. Reclaimed aggregate is aggregate that has been recovered from plastic concrete by washing away the cementitious materials.

9-03.1(2) Fine Aggregate for Portland Cement Concrete

This section is revised to read:

Fine aggregate shall consist of natural sand or manufactured sand, or combinations thereof, accepted by the Engineer, having hard, strong, durable particles free from adherent coating. Fine aggregate shall be washed thoroughly to meet the specifications.

9-03.1(2)A Deleterious Substances

This section is revised to read:

The amount of deleterious substances in the washed aggregate shall be tested in accordance with AASHTO M 6 and not exceed the following values:

Material finer than No. 200 Sieve	2.5 percent by weight
Clay lumps and friable particles	3.0 percent by weight
Coal and lignite	0.25 percent by weight
Particles of specific gravity less than 2.00	1.0 percent by weight.

Organic impurities shall be tested in accordance with AASHTO T 21 by the glass color standard procedure and results darker than organic plate no. 3 shall be rejected. A darker color results from AASHTO T 21 may be used provided that when tested for the effect of organic impurities on strength of mortar, the relative strength at 7 days, calculated in accordance with AASHTO T 71, is not less than 95 percent.

9-03.1(4) Coarse Aggregate for Portland Cement Concrete

This section is revised to read:

Coarse aggregate for concrete shall consist of gravel, crushed gravel, crushed stone, or combinations thereof having hard, strong, durable pieces free from adherent coatings. Coarse aggregate shall be washed to meet the specifications.

9-03.1(4)A Deleterious

This section, including title, is revised to read:

9-03.1(4)A Deleterious Substances

The amount of deleterious substances in the washed aggregate shall be tested in accordance with AASHTO M 80 and not exceed the following values:

Material finer than No. 200	1.0[1] percent by weight
Clay lumps and Friable Particles	2.0 percent by weight
Shale	2.0 percent by weight
Wood waste	0.05 percent by weight
Coal and Lignite	0.5 percent by weight
Sum of Clay Lumps, Friable Particles, and Chert (Less Than 2.40 specific gravity SSD)	3.0 percent by weight

[1]If the material finer than the No. 200 sieve is free of clay and shale, this percentage may be increased to 1.5.

9-03.1(4)C Grading

The following new sentence is inserted at the beginning of the last pargraph:

Where coarse aggregate size 467 is used, the aggregate may be furnished in at least two separate sizes.

9-03.1(5) Combined Aggregate Gradation for Portland Cement Concrete

This section is revised to read:

As an alternative to using the fine aggregate sieve grading requirements in Section 9-03.1(2)B, and coarse aggregate sieve grading requirements in Section 9-03.1(4)C, a combined aggregate gradation conforming to the requirements of Section 9-03.1(5)A may be used.

9-03.1(5)A Deleterious Substances

This section is revised to read:

The amount of deleterious substances in the washed aggregates ⅜ inch or larger shall not exceed the values specified in Section 9-03.1(4)A and for aggregates smaller than ⅜ inch they shall not exceed the values specified in Section 9-03.1(2)A.

9-03.1(5)B Grading

The first paragraph is deleted.

9-03.8(7) HMA Tolerances and Adjustments

In the table in item 1, the last column titled “Commercial Evaluation” is revised to read “Visual Evaluation”.

9-03.21(1)B Concrete Rubble

This section, including title, is revised to read:

9-03.21(1)B Recycled Concrete Aggregate

Recycled concrete aggregates are coarse aggregates manufactured from hardened concrete mixtures. Recycled concrete aggregate may be used as coarse aggregate or blended with coarse aggregate for Commercial Concrete. Recycled concrete aggregate shall meet all of the requirements for coarse aggregate contained in Section 9-03.1(4) or 9-03.1(5). In addition to the requirements of Section 9-03.1(4) or 9-03.1(5), recycled concrete shall:

1. Contain an aggregated weight of less than 1 percent of adherent fines, vegetable matter, plastics, plaster, paper, gypsum board, metals, fabrics, wood, tile, glass, asphalt (bituminous) materials, brick, porcelain or other deleterious substance(s) not otherwise noted;
2. Be free of harmful components such as chlorides and reactive materials unless mitigation measures are taken to prevent recurrence in the new concrete;
3. Have an absorption of less than 10 percent when tested in accordance with AASHTO T 85.

Recycled concrete aggregate shall be in a saturated condition prior to mixing.

Recycled concrete aggregate shall not be placed below the ordinary high water mark of any water of the State.

9-03.21(1)D Recycled Steel Furnace Slag

This section title is revised to read:

Steel Furnace Slag

9-03.21(1)E Table on Maximum Allowable Percent (By Weight) of Recycled Material

The following new row is inserted after the second row:

Coarse Aggregate for Commercial Concrete	9-03.1(4)	0	100	0	0

Section 9-04, Joint and Crack Sealing Materials
January 4, 2016

9-04.2(1) Hot Poured Joint Sealants

This section's content is deleted and replaced with the following new subsections:

9-04.2(1)A Hot Poured Sealant

Hot poured sealant shall be sampled in accordance with ASTM D5167 and tested in accordance with ASTM D5329. Hot poured sealant shall have a minimum Cleveland Open Cup Flash Point of 205°C in accordance with AASHTO T 48.

9-04.2(1)A1 Hot Poured Sealant for Cement Concrete Pavement

Hot poured sealant for cement concrete pavement shall meet the requirements of ASTM D6690 Type IV, except for the following:

1. The Cone Penetration at 25°C shall be 130 maximum.

2. The extension for the Bond, non-immersed, shall be 100 percent.

9-04.2(1)A2 Hot Poured Sealant for Bituminous Pavement

Hot poured sealant for bituminous pavement shall meet the requirements of ASTM D6690 Type II.

9-04.2(1)B Sand Slurry for Bituminous Pavement

Sand slurry is mixture consisting of the following components measured by total weight:

1. Twenty percent CSS-1 emulsified asphalt,

2. Two percent portland cement, and

3. Seventy-eight percent fine aggregate meeting the requirements of 9-03.1(2)B Class 2. Fine aggregate may be damp (no free water).

Section 9-07, Reinforcing Steel
January 4, 2016

9-07.1(1)A Acceptance of Materials

The first sentence of the first paragraph is revised to read:

Reinforcing steel rebar manufacturers shall comply with the National Transportation Product Evaluation Program (NTPEP) Work Plan for Reinforcing Steel (rebar) Manufacturers.

The first sentence of the second paragraph is revised to read:

Steel reinforcing bar manufacturers use either English or a Metric size designation while stamping rebar.

SPECIAL PROVISIONS

1
2

Division 1
General Requirements

SPECIAL PROVISIONS

FOR

CITY OF CARNATION

E. RUTHERFORD STREET IMPROVEMENTS
TOLT AVENUE TO SPILMAN AVENUE

INTRODUCTION TO THE SPECIAL PROVISIONS

(August 14, 2013 APWA GSP)

The work on this project shall be accomplished in accordance with the *Standard Specifications for Road, Bridge and Municipal Construction*, 2016 edition, as issued by the Washington State Department of Transportation (WSDOT) and the American Public Works Association (APWA), Washington State Chapter (hereafter "Standard Specifications"). The Standard Specifications, as modified or supplemented by the Amendments to the Standard Specifications and these Special Provisions, all of which are made a part of the Contract Documents, shall govern all of the Work.

These Special Provisions are made up of both General Special Provisions (GSPs) from various sources, which may have project-specific fill-ins; and project-specific Special Provisions. Each Provision either supplements, modifies, or replaces the comparable Standard Specification, or is a new Provision. The deletion, amendment, alteration, or addition to any subsection or portion of the Standard Specifications is meant to pertain only to that particular portion of the section, and in no way should it be interpreted that the balance of the section does not apply.

The project-specific Special Provisions are not labeled as such. The GSPs are labeled under the headers of each GSP, with the effective date of the GSP and its source. For example:

(March 8, 2013 APWA GSP)
(April 1, 2013 WSDOT GSP)

Also incorporated into the Contract Documents by reference are:

- *Manual on Uniform Traffic Control Devices for Streets and Highways*, currently adopted edition, with Washington State modifications, if any
- Standard Plans for Road, Bridge and Municipal Construction, WSDOT/APWA, current edition

Contractor shall obtain copies of these publications, at Contractor's own expense.

DESCRIPTION OF WORK

The project consists of the following work:

Project will include street reconstruction, an asphalt walkway, raingarden/bioswale, sediment and erosion control, signage improvements and other related work.

All work shall be done in accordance with the Plans, the Standard Specifications for Road, Bridge, and Municipal Construction prepared by the Washington State Department of Transportation dated 2016, referenced codes and organizations, and these Special Provisions.

1-01 DEFINITIONS AND TERMS

1-01.3 DEFINITIONS

(January 4, 2016 APWA GSP)

Delete the heading **Completion Dates** and the three paragraphs that follow it, and replace them with the following:

Dates

Bid Opening Date
The date on which the Contracting Agency publicly opens and reads the Bids.

Award Date
The date of the formal decision of the Contracting Agency to accept the lowest responsible and responsive Bidder for the Work.

Contract Execution Date
The date the Contracting Agency officially binds the Agency to the Contract.

Notice to Proceed Date
The date stated in the Notice to Proceed on which the Contract time begins.

Substantial Completion Date
The day the Engineer determines the Contracting Agency has full and unrestricted use and benefit of the facilities, both from the operational and safety standpoint, any remaining traffic disruptions will be rare and brief, and only minor incidental work, replacement of temporary substitute facilities, plant establishment periods, or correction or repair remains for the Physical Completion of the total Contract.

Physical Completion Date
The day all of the Work is physically completed on the project. All documentation required by the Contract and required by law does not necessarily need to be furnished by the Contractor by this date.

Completion Date
The day all the Work specified in the Contract is completed and all the obligations of the Contractor under the contract are fulfilled by the Contractor. All documentation required by the Contract and required by law must be furnished by the Contractor before establishment of this date.

Final Acceptance Date
The date on which the Contracting Agency accepts the Work as complete.

Supplement this Section with the following:

All references in the Standard Specifications, Amendments, or WSDOT General Special Provisions, to the terms “Department of Transportation”, “Washington State Transportation

Commission", "Commission", "Secretary of Transportation", "Secretary", "Headquarters", and "State Treasurer" shall be revised to read "Contracting Agency".

All references to the terms "State" or "state" shall be revised to read "Contracting Agency" unless the reference is to an administrative agency of the State of Washington, a State statute or regulation, or the context reasonably indicates otherwise.

All references to "State Materials Laboratory" shall be revised to read "Contracting Agency designated location".

All references to "final contract voucher certification" shall be interpreted to mean the Contracting Agency form(s) by which final payment is authorized, and final completion and acceptance granted.

Additive
A supplemental unit of work or group of bid items, identified separately in the Bid Proposal, which may, at the discretion of the Contracting Agency, be awarded in addition to the base bid.

Alternate
One of two or more units of work or groups of bid items, identified separately in the Bid Proposal, from which the Contracting Agency may make a choice between different methods or material of construction for performing the same work.

Business Day
A business day is any day from Monday through Friday except holidays as listed in Section 1-08.5.

Contract Bond
The definition in the Standard Specifications for "Contract Bond" applies to whatever bond form(s) are required by the Contract Documents, which may be a combination of a Payment Bond and a Performance Bond.

Contract Documents
See definition for "Contract".

Contract Time
The period of time established by the terms and conditions of the Contract within which the Work must be physically completed.

Notice of Award
The written notice from the Contracting Agency to the successful Bidder signifying the Contracting Agency's acceptance of the Bid Proposal.

Notice to Proceed
The written notice from the Contracting Agency or Engineer to the Contractor authorizing and directing the Contractor to proceed with the Work and establishing the date on which the Contract time begins.

Traffic
Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and equestrian traffic.

The terms defined in Section 1-01.3 of the Standard Specifications shall be further described by the following:

Contracting Agency
City of Carnation
4624 Tolt Avenue
PO Box 1238
Carnation, Washington, 98014

The terms “Contracting Agency”, “Agency” and “Owner” are interchangeable.

Engineer
Jorge Garcia, PE
Lochner
915 118th Avenue SE
Suite 130
Bellevue, WA 98005

Inspector
The Contracting Agency’s designated Inspector (Resident Engineer) who observes the Contractor’s performance.

Working Drawings
Working drawings are further defined as electrical diagrams, catalog cut sheets, manufacturer's informational sheets describing salient features, performance curves, or samples of fabricated and manufactured items (including mechanical and electrical equipment) required for the construction project.

DESCRIPTION OF WORK

(March 13, 1995)
This Contract provides for the improvement of E. Rutherford Street including street reconstruction, an asphalt walkway, raingarden/bioswale, and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.

Bid Procedures and Conditions

1-02 BID PROCEDURES AND CONDITIONS

1-02.1 Prequalification of Bidders

Delete this section and replace it with the following:

1-02.1 Qualifications of Bidder
(January 24, 2011 APWA GSP)

Before award of a public works contract, a bidder must meet at least the minimum qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified to be awarded a public works project. Additionally, in the last five (5) years, the Bidder shall have successfully completed at least three (3) road reconstruction projects, one (1) project

containing storm water LID construction, and must have experience with paving in public rights-of-way. The roadway reconstruction and the storm water LID construction portions of the qualifications must be met by the proposed subcontractor if the subcontractor will be doing that portion of the work.

1-02.2 PLANS AND SPECIFICATIONS

(June 27, 2011 APWA GSP)

Delete this section and replace it with the following:

Information as to where Bid Documents can be obtained or reviewed will be found in the Call for Bids (Advertisement for Bids) for the work.

After award of the contract, plans and specifications will be issued to the Contractor at no cost as detailed below:

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17") and Contract Provisions	4	Furnished automatically upon award.

Additional plans and Contract Provisions may be purchased by the Contractor by payment of the cost stated in the Call for Bids.

1-02.4 EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK

(*****)

1-02.4(1) GENERAL

Section 1-02.4(1) is supplemented with the following:

If the Bidder finds any discrepancy in, or omission from the specifications or plans, or if there is any doubt as to their meaning, the Bidder shall promptly notify the City Engineer, Jorge Garcia, (425) 454-3160. Any addenda issued during the time of bidding will be numbered consecutively and will be incorporated into these contract documents. The Bidder shall be responsible to ascertain, prior to submittal of a bid proposal that all addenda issued have been received, and are acknowledged on the "Bid Proposal Signature and Addendum Acknowledgment" form. Addendums will only be issued to those Contractors appearing on the Plan Holders List. It will be the responsibility of the Contractor to ensure their name appears on the Plan Holders List.

Questions received less than three (3) working days prior to the date of bid opening may not be answered. Any interpretation or correction of the bid documents will be made only by addendum, and a copy of such addendum will be mailed or delivered to each person receiving a set of such bid documents. The Contracting Agency will not be responsible for any other explanations or interpretations of the bid documents. No oral interpretations by the Contracting Agency of any provision in the bid documents will be considered binding.

1-02.5 PROPOSAL FORMS

(June 27, 2011 APWA GSP)

Delete this section and replace it with the following:

The Proposal Form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder's name, address, telephone number, and signature; the bidder's D/M/WBE commitment, if applicable; a State of Washington Contractor's Registration Number; and a Business License Number, if applicable. Bids shall be completed by typing or shall be printed in ink by hand, preferably in black ink. The required certifications are included as part of the Proposal Form.

The Contracting Agency reserves the right to arrange the proposal forms with alternates and additives, if such be to the advantage of the Contracting Agency. The bidder shall bid on all alternates and additives set forth in the Proposal Form unless otherwise specified.

1-02.6 Preparation of Proposal

(June 27, 2011 APWA GSP)

Supplement the second paragraph with the following:

4. If a minimum bid amount has been established for any item, the unit or lump sum price must equal or exceed the minimum amount stated.

5. Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed by the signer of the bid.

Delete the last paragraph, and replace it with the following:

The Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.

A bid by a corporation shall be executed in the corporate name, by the president or a vice president (or other corporate officer accompanied by evidence of authority to sign).

A bid by a partnership shall be executed in the partnership name, and signed by a partner. A copy of the partnership agreement shall be submitted with the Bid Form if any D/M/WBE requirements are to be satisfied through such an agreement.

A bid by a joint venture shall be executed in the joint venture name and signed by a member of the joint venture. A copy of the joint venture agreement shall be submitted with the Bid Form if any D/W/MBE requirements are to be satisfied through such an agreement.

1-02.7 BID DEPOSIT

(March 8, 2013 APWA GSP)

Supplement this section with the following:

Bid bonds shall contain the following:

1. Contracting Agency-assigned number for the project;

2. Name of the project;

3. The Contracting Agency named as obligee;

4. The amount of the bid bond stated either as a dollar figure or as a percentage which represents five percent of the maximum bid amount that could be awarded;

5. Signature of the bidder's officer empowered to sign official statements. The signature of the person authorized to submit the bid should agree with the signature on the bond, and the title of the person must accompany the said signature;

6. The signature of the surety's officer empowered to sign the bond and the power of attorney.

If so stated in the Contract Provisions, bidder much use the bond form included in the Contract Provisions.

If so stated in the Contract Provisions, cash will not be accepted for a bid deposit.

Supplement this section with the following:

Bid Bond form shall be fully completed including execution date and signature date.

1-02.9 DELIVERY OF PROPOSAL

(August 15, 2012 APWA GSP, Option A)

Delete this section and replace it with the following:

Each proposal shall be submitted in a sealed envelope, with the Project Title and Project Number as stated in the Call for Bids clearly marked on the outside of the envelope, or as otherwise required in the Bid Documents, to ensure proper handling and delivery.

If the project has FHWA funding and requires DBE Written Confirmation Documents or Good Faith Effort Documentation, then to be considered responsive, the Bidder shall submit with their Bid Proposal, written Confirmation Documentation from each DBE firm listed on the Bidder's completed DBE Utilization Certification, form 272-056A EF, as required by Section 1-02.6.

The Contracting Agency will not open or consider any Bid Proposal that is received after the time specified in the Call for Bids for receipt of Bid Proposals, or received in a location other than that specified in the Call for Bids.

1-02.10 WITHDRAWING, REVISING, OR SUPPLEMENTING PROPOSAL

(July 23, 2015 APWA GSP)

Delete this section, and replace it with the following:

After submitting a physical Bid Proposal to the Contracting Agency, the Bidder may withdraw, revise, or supplement it if:

1. The Bidder submits a written request signed by an authorized person and physically delivers it to the place designated for receipt of Bid Proposals, and
2. The Contracting Agency receives the request before the time set for receipt of Bid Proposals, and
3. The revised or supplemented Bid Proposal (if any) is received by the Contracting Agency before the time set for receipt of Bid Proposals.

If the Bidder's request to withdraw, revise, or supplement its Bid Proposal is received before the time set for receipt of Bid Proposals, the Contracting Agency will return the unopened Proposal package to the Bidder. The Bidder must then submit the revised or supplemented package in its entirety. If the Bidder does not submit a revised or supplemented package, then its bid shall be considered withdrawn.

Late revised or supplemented Bid Proposals or late withdrawal requests will be date recorded by the Contracting Agency and returned unopened. Mailed, emailed, or faxed requests to withdraw, revise, or supplement a Bid Proposal are not acceptable.

1-02.12 PUBLIC OPENING OF PROPOSAL

Section 1-02.12 is supplemented with the following:

(*****)
The completed Bid Proposal Form and any other documents required in accordance with the Special Provisions, shall be received at the following location prior to the time Specified:

City of Carnation
4621 Tolt Avenue
PO Box 1238
Carnation, Washington 98014

All bid envelopes must be plainly marked on the outside:

Proposal for Contract

(Name of Bidder)

Project: **E. Rutherford Street Improvements**

Bid proposals shall be deposited at the designated location prior to the date and time for receipt of bid proposals as indicated in the "Notice of Call for Bids", or such revised date as may be specified by an addendum.

No oral, telephonic, emailed, or telegraphic bids or modifications will be considered.

All items shall be bid on.

The bid opening date for this project is **Wednesday, July 20, 2016**. The bids will be publicly opened and read after **3:00 p.m**. on this date.

1-02.13 Irregular Proposals

(January 4, 2016 APWA GSP)

Delete this section and replace it with the following:

1. A proposal will be considered irregular and will be rejected if:
   a. The Bidder is not prequalified when so required;
   b. The authorized proposal form furnished by the Contracting Agency is not used or is altered;
   c. The completed proposal form contains any unauthorized additions, deletions, alternate Bids, or conditions;
   d. The Bidder adds provisions reserving the right to reject or accept the award, or enter into the Contract;
   e. A price per unit cannot be determined from the Bid Proposal;
   f. The Proposal form is not properly executed;
   g. The Bidder fails to submit or properly complete a Subcontractor list, if applicable, as required in Section 1-02.6;
   h. The Bidder fails to submit or properly complete a Disadvantaged Business Enterprise Certification, if applicable, as required in Section 1-02.6;
   i. The Bidder fails to submit written confirmation from each DBE firm listed on the Bidder's completed DBE Utilization Certification that they are in agreement with the bidders DBE participation commitment, if applicable, as required in Section 1-02.6, or if the written confirmation that is submitted fails to meet the requirements of the Special Provisions;
   j The Bidder fails to submit DBE Good Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that a Good Faith Effort to meet the Condition of Award was made;
   k. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation; or
   l. More than one proposal is submitted for the same project from a Bidder under the same or different names.

2. A Proposal may be considered irregular and may be rejected if:
   a. The Proposal does not include a unit price for every Bid item;
   b. Any of the unit prices are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the Contracting Agency;
   c. Receipt of Addenda is not acknowledged;
   d. A member of a joint venture or partnership and the joint venture or partnership submit Proposals for the same project (in such an instance, both Bids may be rejected); or
   e. If Proposal form entries are not made in ink.

1-02.14 Disqualification of Bidders

(March 8, 2013 APWA GSP, Option B)

Delete this section and replace it with the following:

A Bidder will be deemed not responsible if the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1), as amended; or does not meet the following Supplemental Criteria:

1. **Delinquent State Taxes**

   A Criterion: The Bidder shall not owe delinquent taxes to the Washington State Department of Revenue without a payment plan approved by the Department of Revenue.

   B. Documentation: The Bidder shall not be listed on the Washington State Department of Revenue's "Delinquent Taxpayer List" website: http://dor.wa.gov/content/fileandpaytaxes/latefiling/dtlwest.aspx , or if they are so listed, they must submit a written payment plan approved by the Department of Revenue, to the Contracting Agency by the deadline listed below.

2. **Federal Debarment**

   A Criterion: The Bidder shall not currently be debarred or suspended by the Federal government.

   B. Documentation: The Bidder shall not be listed as having an "active exclusion" on the U.S. government's "System for Award Management" database (www.sam.gov).

3. **Subcontractor Responsibility**

   A Criterion: The Bidder's standard subcontract form shall include the subcontractor responsibility language required by RCW 39.06.020, and the Bidder shall have an established procedure which it utilizes to validate the responsibility of each of its subcontractors. The Bidder's subcontract form shall also include a requirement that each of its subcontractors shall have and document a similar procedure to determine whether the sub-tier subcontractors with whom it contracts are also "responsible" subcontractors as defined by RCW 39.06.020.

   B. Documentation: The Bidder, if and when required as detailed below, shall submit a copy of its standard subcontract form for review by the Contracting Agency, and a written description of its procedure for validating the responsibility of subcontractors with which it contracts.

4. **Prevailing Wages**

   A Criterion: The Bidder shall not have a record of prevailing wage violations as determined by WA Labor & Industries in the five years prior to the bid submittal date, that demonstrates a pattern of failing to pay workers prevailing

wages, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.

B. Documentation: The Bidder, if and when required as detailed below, shall submit a list of all prevailing wage violations in the five years prior to the bid submittal date, along with an explanation of each violation and how it was resolved. The Contracting Agency will evaluate these explanations and the resolution of each complaint to determine whether the violation demonstrate a pattern of failing to pay its workers prevailing wages as required.

5. **Claims Against Retainage and Bonds**

A Criterion: The Bidder shall not have a record of excessive claims filed against the retainage or payment bonds for public works projects in the three years prior to the bid submittal date, that demonstrate a lack of effective management by the Bidder of making timely and appropriate payments to its subcontractors, suppliers, and workers, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.

B. Documentation: The Bidder, if and when required as detailed below, shall submit a list of the public works projects completed in the three years prior to the bid submittal date that have had claims against retainage and bonds and include for each project the following information:

- Name of project
- The owner and contact information for the owner;
- A list of claims filed against the retainage and/or payment bond for any of the projects listed;
- A written explanation of the circumstances surrounding each claim and the ultimate resolution of the claim.

6. **Public Bidding Crime**

A Criterion: The Bidder and/or its owners shall not have been convicted of a crime involving bidding on a public works contract in the five years prior to the bid submittal date.

B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder and/or its owners have not been convicted of a crime involving bidding on a public works contract.

7. **Termination for Cause / Termination for Default**

A Criterion: The Bidder shall not have had any public works contract terminated for cause or terminated for default by a government agency in the five years prior to the bid submittal date, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.

B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that

the Bidder has not had any public works contract terminated for cause or terminated for default by a government agency in the five years prior to the bid submittal date; or if Bidder was terminated, describe the circumstances. .

8. **Lawsuits**

A Criterion: The Bidder shall not have lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency

B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder has not had any lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts, or shall submit a list of all lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date, along with a written explanation of the circumstances surrounding each such lawsuit. The Contracting Agency shall evaluate these explanations to determine whether the lawsuits demonstrate a pattern of failing to meet of terms of construction related contracts

As evidence that the Bidder meets the mandatory and supplemental responsibility criteria stated above, the apparent two lowest Bidders must submit to the Contracting Agency by 12:00 P.M. (noon) of the second business day following the bid submittal deadline, a written statement verifying that the Bidder meets all of the mandatory and supplemental criteria together with supporting documentation including but not limited to that detailed above (sufficient in the sole judgment of the Contracting Agency) demonstrating compliance with all mandatory and supplemental responsibility criteria. The Contracting Agency reserves the right to request such documentation from other Bidders as well, and to request further documentation as needed to assess Bidder responsibility. The Contracting Agency also reserves the right to obtain information from third-parties and independent sources of information concerning a Bidder's compliance with the mandatory and supplemental criteria, and to use that information in their evaluation. The Contracting Agency may (but is not required to) consider mitigating factors in determining whether the Bidder complies with the requirements of the supplemental criteria.

The basis for evaluation of Bidder compliance with these mandatory and supplemental criteria shall include any documents or facts obtained by Contracting Agency (whether from the Bidder or third parties) including but not limited to: (i) financial, historical, or operational data from the Bidder; (ii) information obtained directly by the Contracting Agency from others for whom the Bidder has worked, or other public agencies or private enterprises; and (iii) any additional information obtained by the Contracting Agency which is believed to be relevant to the matter.

If the Contracting Agency determines the Bidder does not meet the bidder responsibility criteria above and is therefore not a responsible Bidder, the Contracting Agency shall notify the Bidder in writing, with the reasons for its determination. If the Bidder disagrees with this determination, it may appeal the determination within two (2) business days of the Contracting Agency's determination by presenting its appeal and

any additional information to the Contracting Agency. The Contracting Agency will consider the appeal and any additional information before issuing its final determination. If the final determination affirms that the Bidder is not responsible, the Contracting Agency will not execute a contract with any other Bidder until at least two business days after the Bidder determined to be not responsible has received the Contracting Agency's final determination.

Request to Change Supplemental Bidder Responsibility Criteria Prior To Bid: Bidders with concerns about the relevancy or restrictiveness of the Supplemental Bidder Responsibility Criteria may make or submit requests to the Contracting Agency to modify the criteria. Such requests shall be in writing, describe the nature of the concerns, and propose specific modifications to the criteria. Bidders shall submit such requests to the Contracting Agency no later than five (5) business days prior to the bid submittal deadline and address the request to the Project Engineer or such other person designated by the Contracting Agency in the Bid Documents.

1-02.15 Pre Award Information

(August 14, 2013 APWA GSP)

Revise this section to read:

Before awarding any contract, the Contracting Agency may require one or more of these items or actions of the apparent lowest responsible bidder:

1. A complete statement of the origin, composition, and manufacture of any or all materials to be used,
2. Samples of these materials for quality and fitness tests,
3. A progress schedule (in a form the Contracting Agency requires) showing the order of and time required for the various phases of the work,
4. A breakdown of costs assigned to any bid item,
5. Attendance at a conference with the Engineer or representatives of the Engineer,
6. Obtain, and furnish a copy of, a business license to do business in the city or county where the work is located.
7. Any other information or action taken that is deemed necessary to ensure that the bidder is the lowest responsible bidder.

1-03.2 Award of Contract

(October 1, 2005 APWA GSP)

Section 1-03.2 is supplemented with the following:

The award of the Contract will be made to the lowest bidder deemed responsible by the City, and whose bid conforms to the requirements of these specifications, and whose past record of performance on work of similar complexity and magnitude indicates that said bidder is qualified to carry out the obligations of the contract and to complete the work contemplated herein.

Award and Execution of Contract

1-03.3 Execution of Contract

(October 1, 2005 APWA GSP)

Revise this section to read:

Copies of the Contract Provisions, including the unsigned Form of Contract, will be available for signature by the successful bidder on the first business day following award. The number of copies to be executed by the Contractor will be determined by the Contracting Agency.

Within Ten (10) calendar days after the award date, the successful bidder shall return the signed Contracting Agency-prepared contract, an insurance certification as required by Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before execution of the contract by the Contracting Agency, the successful bidder shall provide any pre-award information the Contracting Agency may require under Section 1-02.15.

Until the Contracting Agency executes a contract, no proposal shall bind the Contracting Agency nor shall any work begin within the project limits or within Contracting Agency-furnished sites. The Contractor shall bear all risks for any work begun outside such areas and for any materials ordered before the contract is executed by the Contracting Agency.

If the bidder experiences circumstances beyond their control that prevents return of the contract documents within the calendar days after the award date stated above, the Contracting Agency may grant up to a maximum of Ten (10) additional calendar days for return of the documents, provided the Contracting Agency deems the circumstances warrant it.

1-03.4 Contract Bond

(July 23, 2015 APWA GSP)

Delete the first paragraph and replace it with the following:

The successful bidder shall provide executed payment and performance bond(s) for the full contract amount. The bond may be a combined payment and performance bond; or be separate payment and performance bonds. In the case of separate payment and performance bonds, each shall be for the full contract amount. The bond(s) shall:

1. Be on Contracting Agency-furnished form(s);
2. Be signed by an approved surety (or sureties) that:
    a. Is registered with the Washington State Insurance Commissioner, and
    b. Appears on the current Authorized Insurance List in the State of Washington published by the Office of the Insurance Commissioner,
3. Guarantee that the Contractor will perform and comply with all obligations, duties, and conditions under the Contract, including but not limited to the duty and obligation to indemnify, defend, and protect the Contracting Agency against all losses and claims related directly or indirectly from any failure:
    a. Of the Contractor (or any of the employees, subcontractors, or lower tier subcontractors of the Contractor) to faithfully perform and comply with all contract obligations, conditions, and duties, or

b. Of the Contractor (or the subcontractors or lower tier subcontractors of the Contractor) to pay all laborers, mechanics, subcontractors, lower tier subcontractors, material person, or any other person who provides supplies or provisions for carrying out the work;

4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the project under titles 50, 51, and 82 RCW; and
5. Be accompanied by a power of attorney for the Surety's officer empowered to sign the bond; and
6. Be signed by an officer of the Contractor empowered to sign official statements (sole proprietor or partner). If the Contractor is a corporation, the bond(s) must be signed by the president or vice president, unless accompanied by written proof of the authority of the individual signing the bond(s) to bind the corporation (i.e., corporate resolution, power of attorney, or a letter to such effect signed by the president or vice president).

1-03.7 JUDICIAL REVIEW

(July 23, 2015 APWA GSP)

Revise this section to read:

Any decision made by the Contracting Agency regarding the Award and execution of the Contract or Bid rejection shall be conclusive subject to the scope of judicial review permitted under Washington Law. Such review, if any, shall be timely filed in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.05 shall control venue and jurisdiction.

1-04 SCOPE OF THE WORK

1-04.1 INTENT OF THE CONTRACT

1-04.1(2) Bid Items Not Included in the Proposal

Delete the first paragraph in its entirety and replace it with the following:

If work is required to complete the project according to the intent of the Plans and Specifications but no bid item is provided in the Bid Schedule, then the Contractor shall include the cost for providing the necessary work in the unit or lump sum price for the bid item most closely related to the work.

All materials, tools, labor, and guarantees required to complete the work shall be furnished and supplied in accordance with the Plans, these Special Provision, the Standard Specifications, and applicable requirements. The Contractor shall include all costs of completing this work within the contract bid items.

1-04.2 COORDINATION OF CONTRACT DOCUMENTS, PLANS, SPECIAL PROVISIONS, SPECIFICATIONS, AND ADDENDA

(March 13, 2012 APWA GSP)

Revise the second paragraph to read:

Any inconsistency in the parts of the contract shall be resolved by following this order of precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth):

1. Addenda,
2. Proposal Form,
3. Special Provisions, including APWA General Special Provisions,
4. Contract Plans,
5. Amendments to the Standard Specifications,
6. WSDOT Standard Specifications for Road, Bridge and Municipal Construction,,
7. Contracting Agency's Standard Plans or Details (if any), and
8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

1-04.4(1) Minor Changes (****)

Section 1-04.4(1) is supplemented with the following:

To provide a common basis for all bidders, the City has estimated and included in the Proposal, a dollar amount for all items to be paid by force account. All such dollar amounts re to become a part of the Contractor's total bid. However, the City does not warrant, expressly or by implication that the actual amount of work will correspond with those estimates. Payment will be made on the basis of work actually authorized by the Engineer and in accordance with Section 1-09.6 of the Standard Specifications.

For this contract, the bid item "Minor Change" shall be used to pay for work items not covered by bid items in the proposal and as authored by the Engineer.

Minor Changes Per Force Account

1-04.6 Variation in Estimated Quantities

(July 23, 2015 APWA GSP, Option B; may not be used on FHWA-funded projects)

Revise the first paragraph to read:

Payment to the Contractor will be made only for the actual quantities of Work performed and accepted in conformance with the Contract. When the accepted quantity of Work performed under a unit item varies from the original Proposal quantity, payment will be at the unit Contract price for all Work unless the total accepted quantity of any Contract item, adjusted to exclude added or deleted amounts included in change orders accepted by both parties, increases or decreases by more than 25 percent from the original Proposal quantity, and if the total extended bid price for that item at time of award is equal to or greater than 10 percent of the total contract price at time of award. In that case, payment for contract work may be adjusted as described herein:

1-04.11 FINAL CLEANUP

This section is supplemented with the following:

The Contractor shall do partial cleanup when he determines it is necessary or when, in the opinion of the Engineer, partial cleanup shall be done for public safety. The cleanup

work shall be done immediately upon notification from the Engineer and other work shall not proceed until the partial cleanup is accomplished.

1-05.4 Conformity With and Deviations From Plans And Stakes

Section 1-05.4 is supplemented with the following:

(April 1, 2013)

Contractor Surveying - Roadway

Copies of the Contracting Agency provided primary survey control data are available for the bidder's inspection at the office of the Project Engineer.

The Contractor shall be responsible for setting, maintaining, and resetting all alignment stakes, slope stakes, and grades necessary for the construction of the roadbed, drainage, surfacing, paving, channelization and pavement marking, illumination and signals, guardrails and barriers, and signing. Except for the survey control data to be furnished by the Contracting Agency, calculations, surveying, and measuring required for setting and maintaining the necessary lines and grades shall be the Contractor's responsibility.

The Contractor shall inform the Engineer when monuments are discovered that were not identified in the Plans and construction activity may disturb or damage the monuments. All monuments noted on the plans “DO NOT DISTURB” shall be protected throughout the length of the project or be replaced at the Contractors expense.

Detailed survey records shall be maintained, including a description of the work performed on each shift, the methods utilized, and the control points used. The record shall be adequate to allow the survey to be reproduced. A copy of each day's record shall be provided to the Engineer within three working days after the end of the shift.

The meaning of words and terms used in this provision shall be as listed in "Definitions of Surveying and Associated Terms" current edition, published by the American Congress on Surveying and Mapping and the American Society of Civil Engineers.

The survey work shall include but not be limited to the following:

1. Verify the primary horizontal and vertical control furnished by the Contracting Agency, and expand into secondary control by adding stakes and hubs as well as additional survey control needed for the project. Provide descriptions of secondary control to the Contracting Agency. The description shall include coordinates and elevations of all secondary control points.

2. Establish, the centerlines of all alignments, by placing hubs, stakes, or marks on centerline or on offsets to centerline at all curve points (PCs, PTs, and PIs) and at points on the alignments spaced no further than 50 feet.

3. Establish clearing limits, placing stakes at all angle points and at intermediate points not more than 50 feet apart. The clearing and grubbing limits shall be 5 feet beyond the toe of a fill and 10 feet beyond the top of a cut unless otherwise shown in the Plans.

4. Establish grading limits, placing slope stakes at centerline increments not more than 50 feet apart. Establish offset reference to all slope stakes. If Global

Positioning Satellite (GPS) Machine Controls are used to provide grade control, then slope stakes may be omitted at the discretion of the Contractor

5. Establish the horizontal and vertical location of all drainage features, placing offset stakes to all drainage structures and to pipes at a horizontal interval not greater than 25 feet.

6. Establish roadbed and surfacing elevations by placing stakes at the top of subgrade and at the top of each course of surfacing. Subgrade and surfacing stakes shall be set at horizontal intervals not greater than 50 feet in tangent sections, 25 feet in curve sections with a radius less than 300 feet, and at 10-foot intervals in intersection radii with a radius less than 10 feet. Transversely, stakes shall be placed at all locations where the roadway slope changes and at additional points such that the transverse spacing of stakes is not more than 12 feet. If GPS Machine Controls are used to provide grade control, then roadbed and surfacing stakes may be omitted at the discretion of the Contractor.

7. Establish intermediate elevation benchmarks as needed to check work throughout the project.

8. Provide references for paving pins at 25-foot intervals or provide simultaneous surveying to establish location and elevation of paving pins as they are being placed.

9. For all other types of construction included in this provision, (including but not limited to channelization and pavement marking, illumination and signals, guardrails and barriers, and signing) provide staking and layout as necessary to adequately locate, construct, and check the specific construction activity.

10. Contractor shall determine if changes are needed to the profiles or roadway sections shown in the Contract Plans in order to achieve proper smoothness and drainage where matching into existing features, such as a smooth transition from new pavement to existing pavement. The Contractor shall submit these changes to the Project Engineer for review and approval 10 days prior to the beginning of work.

The Contractor shall provide the Contracting Agency copies of any calculations and staking data when requested by the Engineer.

To facilitate the establishment of these lines and elevations, the Contracting Agency will provide the Contractor with primary survey control information consisting of descriptions of two primary control points used for the horizontal and vertical control, and descriptions of two additional primary control points for every additional three miles of project length. Primary control points will be described by reference to the project alignment and the coordinate system and elevation datum utilized by the project. In addition, the Contracting Agency will supply horizontal coordinates for the beginning and ending points and for each Point of Intersection (PI) on each alignment included in the project.

The Contractor shall ensure a surveying accuracy within the following tolerances:

	Vertical	Horizontal
Slope stakes	±0.10 feet	±0.10 feet
Subgrade grade stakes set 0.04 feet below grade	±0.01 feet	±0.5 feet (parallel to alignment) ±0.1 feet (normal to alignment)
Stationing on roadway	N/A	±0.1 feet
Alignment on roadway	N/A	±0.04 feet
Surfacing grade stakes	±0.01 feet	±0.5 feet (parallel to alignment) ±0.1 feet (normal to alignment)
Roadway paving pins for surfacing or paving	±0.01 feet	±0.2 feet (parallel to alignment) ±0.1 feet (normal to alignment)

The Contracting Agency may spot-check the Contractor's surveying. These spot-checks will not change the requirements for normal checking by the Contractor.

When staking roadway alignment and stationing, the Contractor shall perform independent checks from different secondary control to ensure that the points staked are within the specified survey accuracy tolerances.

The Contractor shall calculate coordinates for the alignment. The Contracting Agency will verify these coordinates prior to issuing approval to the Contractor for commencing with the work. The Contracting Agency will require up to seven calendar days from the date the data is received.

Contract work to be performed using contractor-provided stakes shall not begin until the stakes are approved by the Contracting Agency. Such approval shall not relieve the Contractor of responsibility for the accuracy of the stakes.

Stakes shall be marked in accordance with Standard Plan A10.10. When stakes are needed that are not described in the Plans, then those stakes shall be marked, at no additional cost to the Contracting Agency as ordered by the Engineer.

Payment

Payment will be made in accordance with Section 1-04.1 for the following bid item when included in the proposal:

"Roadway Surveying", lump sum.

The lump sum contract price for "Roadway Surveying" shall be full pay for all labor, equipment, materials, and supervision utilized to perform the Work specified, including any resurveying, checking, correction of errors, replacement of missing or damaged stakes, and coordination efforts.

1-05.7 Removal of Defective and Unauthorized Work

(October 1, 2005 APWA GSP)

Supplement this section with the following:

If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem necessary.

If the Contractor fails to comply with a written order to remedy what the Engineer determines to be an emergency situation, the Engineer may have the defective and unauthorized work corrected immediately, have the rejected work removed and replaced, or have work the Contractor refuses to perform completed by using Contracting Agency or other forces. An emergency situation is any situation when, in the opinion of the Engineer, a delay in its remedy could be potentially unsafe, or might cause serious risk of loss or damage to the public.

Direct or indirect costs incurred by the Contracting Agency attributable to correcting and remedying defective or unauthorized work, or work the Contractor failed or refused to perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from monies due, or to become due, the Contractor. Such direct and indirect costs shall include in particular, but without limitation, compensation for additional professional services required, and costs for repair and replacement of work of others destroyed or damaged by correction, removal, or replacement of the Contractor's unauthorized work.

No adjustment in contract time or compensation will be allowed because of the delay in the performance of the work attributable to the exercise of the Contracting Agency's rights provided by this Section.

The rights exercised under the provisions of this section shall not diminish the Contracting Agency's right to pursue any other avenue for additional remedy or damages with respect to the Contractor's failure to perform the work as required.

1-05 CONTROL OF WORK

1-05.1 AUTHORITY OF THE ENGINEER

This section is supplemented with the following:

Unless otherwise expressly provided in the Contract Drawings, Specifications and Addenda, the means and methods of construction shall be such as the Contractor may choose; subject, however, to the Engineer's right to reject means and methods proposed by the Contractor which (1) will constitute or create a hazard to the work, or to persons or property; or (2) will not produce finished work in accordance with the terms of the Contract. The Engineer's approval of the Contractor's means and methods of construction or his failure to exercise his right to reject such means or methods shall not relieve the Contractor of the obligation to accomplish the result intended by the Contract; nor shall the exercise of such right to reject create a cause for action for damages.

The Contracting Agency shall have the authority at all times to issue a stop work order at no penalty to the Contracting Agency if, in its opinion, working conditions present an undue hazard to the public, property of the work force. Such authority shall not, however, relieve the Contractor of responsibility for the maintenance of safe working conditions or assess any responsibility to the Contracting Agency or Engineer for the identification of any or all unsafe conditions.

1-05.7 REMOVAL OF DEFECTIVE AND UNAUTHORIZED WORK

(October 1, 2005 APWA GSP)

Supplement this section with the following:

If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem necessary.

If the Contractor fails to comply with a written order to remedy what the Engineer determines to be an emergency situation, the Engineer may have the defective and unauthorized work corrected immediately, have the rejected work removed and replaced, or have work the Contractor refuses to perform completed by using Contracting Agency or other forces. An emergency situation is any situation when, in the opinion of the Engineer, a delay in its remedy could be potentially unsafe, or might cause serious risk of loss or damage to the public.

Direct or indirect costs incurred by the Contracting Agency attributable to correcting and remedying defective or unauthorized work, or work the Contractor failed or refused to perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from monies due, or to become due, the Contractor. Such direct and indirect costs shall include in particular, but without limitation, compensation for additional professional services required, and costs for repair and replacement of work of others destroyed or damaged by correction, removal, or replacement of the Contractor's unauthorized work.

No adjustment in contract time or compensation will be allowed because of the delay in the performance of the work attributable to the exercise of the Contracting Agency's rights provided by this Section.

The rights exercised under the provisions of this section shall not diminish the Contracting Agency's right to pursue any other avenue for additional remedy or damages with respect to the Contractor's failure to perform the work as required.

1-05.11 Final Inspection

Delete this section and replace it with the following:

1-05.11 Final Inspections and Operational Testing

(October 1, 2005 APWA GSP)

1-05.11(1) Substantial Completion Date

When the Contractor considers the work to be substantially complete, the Contractor shall so notify the Engineer and request the Engineer establish the Substantial Completion Date. The Contractor's request shall list the specific items of work that remain to be completed in order to reach physical completion. The Engineer will schedule an inspection of the work with the Contractor to determine the status of completion. The Engineer may also establish the Substantial Completion Date unilaterally.

If, after this inspection, the Engineer concurs with the Contractor that the work is substantially complete and ready for its intended use, the Engineer, by written notice to the Contractor, will set the Substantial Completion Date. If, after this inspection the Engineer does not consider the work substantially complete and ready for its intended use, the Engineer will, by written notice, so notify the Contractor giving the reasons therefor.

Upon receipt of written notice concurring in or denying substantial completion, whichever is applicable, the Contractor shall pursue vigorously, diligently and without unauthorized interruption, the work necessary to reach Substantial and Physical Completion. The Contractor shall provide the Engineer with a revised schedule indicating when the Contractor expects to reach substantial and physical completion of the work.

The above process shall be repeated until the Engineer establishes the Substantial Completion Date and the Contractor considers the work physically complete and ready for final inspection.

1-05.11(2) Final Inspection and Physical Completion Date

When the Contractor considers the work physically complete and ready for final inspection, the Contractor by written notice, shall request the Engineer to schedule a final inspection. The Engineer will set a date for final inspection. The Engineer and the Contractor will then make a final inspection and the Engineer will notify the Contractor in writing of all particulars in which the final inspection reveals the work incomplete or unacceptable. The Contractor shall immediately take such corrective measures as are necessary to remedy the listed deficiencies. Corrective work shall be pursued vigorously, diligently, and without interruption until physical completion of the listed deficiencies. This process will continue until the Engineer is satisfied the listed deficiencies have been corrected.

If action to correct the listed deficiencies is not initiated within 7 days after receipt of the written notice listing the deficiencies, the Engineer may, upon written notice to the Contractor, take whatever steps are necessary to correct those deficiencies pursuant to Section 1-05.7.

The Contractor will not be allowed an extension of contract time because of a delay in the performance of the work attributable to the exercise of the Engineer's right hereunder.

Upon correction of all deficiencies, the Engineer will notify the Contractor and the Contracting Agency, in writing, of the date upon which the work was considered physically complete. That date shall constitute the Physical Completion Date of the contract, but shall not imply acceptance of the work or that all the obligations of the Contractor under the contract have been fulfilled.

1-05.11(3) Operational Testing

It is the intent of the Contracting Agency to have at the Physical Completion Date a complete and operable system. Therefore when the work involves the installation of machinery or other mechanical equipment; street lighting, electrical distribution or signal systems; irrigation systems; buildings; or other similar work it may be desirable for the Engineer to have the Contractor operate and test the work for a period of time after final inspection but prior to the physical completion date. Whenever items of work are listed in the Contract Provisions for operational testing they shall be fully tested under operating conditions for the time period specified to ensure their acceptability prior to the Physical Completion Date. During and following the test period, the Contractor shall correct any items of workmanship, materials, or equipment which prove faulty, or that are not in first class operating condition. Equipment, electrical controls, meters, or other devices and equipment to be tested during this period shall be tested under the observation of the Engineer, so that the Engineer may determine their suitability for the purpose for which they were installed. The Physical Completion Date cannot be established until testing and corrections have been completed to the satisfaction of the Engineer.

The costs for power, gas, labor, material, supplies, and everything else needed to successfully complete operational testing, shall be included in the unit contract prices related to the system being tested, unless specifically set forth otherwise in the proposal.

Operational and test periods, when required by the Engineer, shall not affect a manufacturer's guaranties or warranties furnished under the terms of the contract.

Add the following new section:

1-05.12(1) One-Year Guarantee Period
(March 8, 2013 APWA GSP, may not be used on FHWA funded projects)

The Contractor shall return to the project and repair or replace all defects in workmanship and material discovered within one year after Final Acceptance of the Work. The Contractor shall start work to remedy any such defects within 7 calendar days of receiving Contracting Agency's written notice of a defect, and shall complete such work within the time stated in the Contracting Agency's notice. In case of an emergency, where damage may result from delay or where loss of services may result, such corrections may be made by the Contracting Agency's own forces or another contractor, in which case the cost of corrections shall be paid by the Contractor. In the event the Contractor does not accomplish corrections within the time specified, the work will be otherwise accomplished and the cost of same shall be paid by the Contractor.

When corrections of defects are made, the Contractor shall then be responsible for correcting all defects in workmanship and materials in the corrected work for one year after acceptance of the corrections by Contracting Agency.

This guarantee is supplemental to and does not limit or affect the requirements that the Contractor's work comply with the requirements of the Contract or any other legal rights or remedies of the Contracting Agency.

1-05.13 Superintendents, Labor and Equipment of Contractor
(August 14, 2013 APWA GSP)

Delete the sixth and seventh paragraphs of this section.

1-05.15 Method of Serving Notices
(March 25, 2009 APWA GSP)

Revise the second paragraph to read:

All correspondence from the Contractor shall be directed to the Project Engineer. All correspondence from the Contractor constituting any notification, notice of protest, notice of dispute, or other correspondence constituting notification required to be furnished under the Contract, must be in paper format, hand delivered or sent via mail delivery service to the Project Engineer's office. Electronic copies such as e-mails or electronically delivered copies of correspondence will not constitute such notice and will not comply with the requirements of the Contract.

Add the following new section:

1-05.16 Water and Power
(October 1, 2005 APWA GSP)

The Contractor shall make necessary arrangements, and shall bear the costs for power and water necessary for the performance of the work, unless the contract includes power and water as a pay item.

1-05.17 Oral Agreements

(October 1, 2005 AWPA GSP)

No oral agreement or conversation with any officer, agent, or employee of the Contracting Agency, either before or after execution of the contract, shall affect or modify any of the terms or obligations contained in any of the documents comprising the contract. Such oral agreement or conversation shall be considered as unofficial information and in no way binding upon the Contracting Agency, unless subsequently put in writing and signed by the Contracting Agency.

Control of Material

1-06.1(4) Fabrication Inspection Expense

(June 27, 2011 AWPA GSP)

Delete this section in its entirety.

1-06.4 HANDLING AND STORING MATERIALS

Section 1-06.4 is supplemented with the following:

(*****)

The Contractor shall make arrangements for storage of equipment and materials.

Pipe Storage and Handling

All pipe shall be properly stored and handled to prevent damage in accordance with the manufacturer's recommendations and as approved by the Contracting Agency. Damage is described as, but is not limited to, gouging, abrasion, flattening, cutting, puncturing, or ultra-violet light (UV) degradation. Thorough inspection of the pipe materials shall be performed prior to installation.

All materials purchase and handling will be the responsibility of the Contractor. This includes off-loading, transporting into storage, assembling and transporting from storage to the work area.

1-06.6 Recycled Materials

(January 4, 2016 APWA GSP)

Delete this section, including its subsections, and replace it with the following:

The Contractor shall make their best effort to utilize recycled materials in the construction of the project. Approval of such material use shall be as detailed elsewhere in the Standard Specifications.

Prior to Physical Completion the Contractor shall report the quantity of recycled materials that were utilized in the construction of the project for each of the items listed in Section 9-03.21. The report shall include hot mix asphalt, recycled concrete aggregate, recycled glass, steel furnace slag and other recycled materials (e.g. utilization of on-site material

and aggregates from concrete returned to the supplier). The Contractor's report shall be provided on DOT form 350-075 Recycled Materials Reporting.

Legal Relations and Responsibilities to the Public

1-07.1 Laws to be Observed

(October 1, 2005 APWA GSP)

Supplement this section with the following:

In cases of conflict between different safety regulations, the more stringent regulation shall apply.

The Washington State Department of Labor and Industries shall be the sole and paramount administrative agency responsible for the administration of the provisions of the Washington Industrial Safety and Health Act of 1973 (WISHA).

The Contractor shall maintain at the project site office, or other well known place at the project site, all articles necessary for providing first aid to the injured. The Contractor shall establish, publish, and make known to all employees, procedures for ensuring immediate removal to a hospital, or doctor's care, persons, including employees, who may have been injured on the project site. Employees should not be permitted to work on the project site before the Contractor has established and made known procedures for removal of injured persons to a hospital or a doctor's care.

The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of the Contractor's plant, appliances, and methods, and for any damage or injury resulting from their failure, or improper maintenance, use, or operation. The Contractor shall be solely and completely responsible for the conditions of the project site, including safety for all persons and property in the performance of the work. This requirement shall apply continuously, and not be limited to normal working hours. The required or implied duty of the Engineer to conduct construction review of the Contractor's performance does not, and shall not, be intended to include review and adequacy of the Contractor's safety measures in, on, or near the project site.

Section 1-07.1 is supplemented with the following:

Sentence 2 of paragraph 1 is deleted in its entirety and replaced with the following:

(*****)

The Contractor shall indemnify and save harmless the City of Carnation (including Council members, employees, the Engineer and any agents) against any claim that may arise because the Contractor (or any employee of the Contractor or subcontractor or material supplier) violated a legal requirement.

(*****)

Except as provided in Section 1-07.1, all costs incurred as a result of compliance with Federal, State and Local rules and regulations shall be paid by the Contractor and all such costs, including taxes, permit and other fees, shall be included in the respective bid item amounts.

1-07.2 State Taxes

Delete this section, including its sub-sections, in its entirety and replace it with the following:

1-07.2 State Sales Tax

(June 27, 2011 APWA GSP)

The Washington State Department of Revenue has issued special rules on the State sales tax. Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The Contractor should contact the Washington State Department of Revenue for answers to questions in this area. The Contracting Agency will not adjust its payment if the Contractor bases a bid on a misunderstood tax liability.

The Contractor shall include all Contractor-paid taxes in the unit bid prices or other contract amounts. In some cases, however, state retail sales tax will not be included. Section 1-07.2(2) describes this exception.

The Contracting Agency will pay the retained percentage (or release the Contract Bond if a FHWA-funded Project) only if the Contractor has obtained from the Washington State Department of Revenue a certificate showing that all contract-related taxes have been paid (RCW 60.28.051). The Contracting Agency may deduct from its payments to the Contractor any amount the Contractor may owe the Washington State Department of Revenue, whether the amount owed relates to this contract or not. Any amount so deducted will be paid into the proper State fund.

1-07.2(1) State Sales Tax — Rule 171

WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets, roads, etc., which are owned by a municipal corporation, or political subdivision of the state, or by the United States, and which are used primarily for foot or vehicular traffic. This includes storm or combined sewer systems within and included as a part of the street or road drainage system and power lines when such are part of the roadway lighting system. For work performed in such cases, the Contractor shall include Washington State Retail Sales Taxes in the various unit bid item prices, or other contract amounts, including those that the Contractor pays on the purchase of the materials, equipment, or supplies used or consumed in doing the work.

1-07.2(2) State Sales Tax — Rule 170

WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or existing buildings, or other structures, upon real property. This includes, but is not limited to, the construction of streets, roads, highways, etc., owned by the state of Washington; water mains and their appurtenances; sanitary sewers and sewage disposal systems unless such sewers and disposal systems are within, and a part of, a street or road drainage system; telephone, telegraph, electrical power distribution lines, or other conduits or lines in or above streets or roads, unless such power lines become a part of a street or road lighting system; and installing or attaching of any article of tangible personal property in or to real property, whether or not such personal property becomes a part of the realty by virtue of installation.

For work performed in such cases, the Contractor shall collect from the Contracting Agency, retail sales tax on the full contract price. The Contracting Agency will automatically add this sales tax to each payment to the Contractor. For this reason, the Contractor shall not include the retail sales tax in the unit bid item prices, or in any other contract amount subject to Rule 170, with the following exception.

Exception: The Contracting Agency will not add in sales tax for a payment the Contractor or a subcontractor makes on the purchase or rental of tools, machinery, equipment, or consumable supplies not integrated into the project. Such sales taxes shall be included in the unit bid item prices or in any other contract amount.

1-07.2(3) Services

The Contractor shall not collect retail sales tax from the Contracting Agency on any contract wholly for professional or other services (as defined in Washington State Department of Revenue Rules 138 and 244).

1-07.6 Permits and Licenses

Supplement this section with the following:

The Contractor and all subcontractors are responsible for obtaining and paying for business licenses in the City of Carnation.

All costs required to comply with this section shall be the responsibility of the Contractor.

1-07.17 UTILITIES AND SIMILAR FACILITIES

Supplement this section with the following:

Locations and dimensions shown in the Plans for existing facilities are in accordance with available information obtained without uncovering, measuring, or other verification.

Public and private utilities, or their Contractors, will furnish all work necessary to adjust, relocate, replace, or construct their facilities unless otherwise provided for in the Plans or these Special Provisions. Such adjustment, relocation, replacement, or construction will be done during the prosecution of the work for this project.

It shall be the contractor's responsibility to investigate the presence and location of all utilities prior to bid opening and assess their impacts on his construction activities.

The following addresses and telephone numbers of utility companies known or suspected of having facilities within the project limits are supplied for the Contractor's convenience:

Puget Sound Energy
206 716-2716

Comcast
425 921-*7422

City Public Works Operations Dept.
425 333-4192

School District Transportation
425 844-4540

CenturyLink 360 893-5110	City Water and Sewer Dept. 425 333-4192
Solid Waste Dept. 206 764-8994	USPS. 425 333-6451

The Contractor shall coordinate his work with other contractors who may be working in the project area and cooperate with them.

The Contractor shall coordinate the work with these utilities and shall notify the Engineer in advance of any conflicts affecting the work schedule. The utility companies shall witness or perform all shutdowns, connections or disconnections. The Contractor shall be responsible for any breakage of utilities or services resulting from its operations and shall hold the City and its agents harmless from any claims resulting from disruption of, or damage to, same.

1-07.18 PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE

Delete this section in its entirety, and replace it with the following:

1-07.18 Insurance

(January 24, 2011 APWA GSP)

1-07.18 Public Liability and Property Damage Insurance

Delete this section in its entirety, and replace it with the following:

1-07.18 Insurance
(January 4, 2016 APWA GSP)

1-07.18(1) General Requirements

A. The Contractor shall procure and maintain the insurance described in all subsections of section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best rating of not less than A-: VII and licensed to do business in the State of Washington. The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer's financial condition.

B. The Contractor shall keep this insurance in force without interruption from the commencement of the Contractor's Work through the term of the Contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated below.

C. If any insurance policy is written on a claims made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made, and state the retroactive date. Claims-made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Completion Date or earlier termination of this Contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period ("tail") or execute another form of guarantee acceptable to the Contracting Agency to assure financial responsibility for liability for services performed.

D. The Contractor's Automobile Liability, Commercial General Liability and Excess or Umbrella Liability insurance policies shall be primary and non-contributory insurance as respects the Contracting Agency's insurance, self-insurance, or self-insured pool coverage. Any insurance, self-insurance, or self-insured pool coverage maintained by the Contracting Agency shall be excess of the Contractor's insurance and shall not contribute with it.

E. The Contractor shall provide the Contracting Agency and all additional insureds with written notice of any policy cancellation, within two business days of their receipt of such notice.

F. The Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by the Contracting Agency

G. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five business days' notice to the Contractor to correct the breach, immediately terminate the Contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the Contracting Agency on demand, or at the sole discretion of the Contracting Agency, offset against funds due the Contractor from the Contracting Agency.

H. All costs for insurance shall be incidental to and included in the unit or lump sum prices of the Contract and no additional payment will be made.

1-07.18(2) Additional Insured

All insurance policies, with the exception of Workers Compensation, and of Professional Liability and Builder's Risk (if required by this Contract) shall name the following listed entities as additional insured(s) using the forms or endorsements required herein:

- the Contracting Agency and its officers, elected officials, employees, agents, and volunteers

The above-listed entities shall be additional insured(s) for the full available limits of liability maintained by the Contractor, irrespective of whether such limits maintained by the Contractor are greater than those required by this Contract, and irrespective of whether the Certificate of Insurance provided by the Contractor pursuant to 1-07.18(4) describes limits lower than those maintained by the Contractor.

For Commercial General Liability insurance coverage, the required additional insured endorsements shall be at least as broad as ISO forms CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for completed operations.

1-07.18(3) Subcontractors

The Contractor shall cause each Subcontractor of every tier to provide insurance coverage that complies with all applicable requirements of the Contractor-provided insurance as set forth herein, except the Contractor shall have sole responsibility for determining the limits of coverage required to be obtained by Subcontractors.

The Contractor shall ensure that all Subcontractors of every tier add all entities listed in 1-07.18(2) as additional insureds, and provide proof of such on the policies as required by that section as detailed in 1-07.18(2) using an endorsement as least as broad as ISO CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for completed operations.

Upon request by the Contracting Agency, the Contractor shall forward to the Contracting Agency evidence of insurance and copies of the additional insured endorsements of each Subcontractor of every tier as required in 1-07.18(4) Verification of Coverage.

1-07.18(4) Verification of Coverage

The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and endorsements for each policy of insurance meeting the requirements set forth herein when the Contractor delivers the signed Contract for the work. Failure of Contracting Agency to demand such verification of coverage with these insurance requirements or failure of Contracting Agency to identify a deficiency from the insurance documentation provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

Verification of coverage shall include:

1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
2. Copies of all endorsements naming Contracting Agency and all other entities listed in 1-07.18(2) as additional insured(s), showing the policy number. The Contractor may submit a copy of any blanket additional insured clause from its policies instead of a separate endorsement.
3. Any other amendatory endorsements to show the coverage required herein.
4. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy these requirements – actual endorsements must be submitted.

Upon request by the Contracting Agency, the Contractor shall forward to the Contracting Agency a full and certified copy of the insurance policy(s). If Builders Risk insurance is required on this Project, a full and certified copy of that policy is required when the Contractor delivers the signed Contract for the work.

1-07.18(5) Coverages and Limits

The insurance shall provide the minimum coverages and limits set forth below. Contractor's maintenance of insurance, its scope of coverage, and limits as required herein shall not be construed to limit the liability of the Contractor to the coverage provided by such insurance, or otherwise limit the Contracting Agency's recourse to any remedy available at law or in equity.

All deductibles and self-insured retentions must be disclosed and are subject to approval by the Contracting Agency. The cost of any claim payments falling within the deductible or self-insured retention shall be the responsibility of the Contractor. In the event an additional insured incurs a liability subject to any policy's deductibles or self-insured retention, said deductibles or self-insured retention shall be the responsibility of the Contractor.

1-07.18(5)A Commercial General Liability

Commercial General Liability insurance shall be written on coverage forms at least as broad as ISO occurrence form CG 00 01, including but not limited to liability arising from premises, operations, stop gap liability, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract. There shall be no exclusion for liability arising from explosion, collapse or underground property damage.

The Commercial General Liability insurance shall be endorsed to provide a per project general aggregate limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

Contractor shall maintain Commercial General Liability Insurance arising out of the Contractor's completed operations for at least three years following Substantial Completion of the Work.

Such policy must provide the following minimum limits:

$1,000,000	Each Occurrence
$2,000,000	General Aggregate
$1,000,000	Products & Completed Operations Aggregate
$1,000,000	Personal & Advertising Injury each offence
$1,000,000	Stop Gap / Employers' Liability each accident

1-07.18(5)B Automobile Liability

Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall be written on a coverage form at least as broad as ISO form CA 00 01. If the work involves the transport of pollutants, the automobile liability policy shall include MCS 90 and CA 99 48 endorsements.

Such policy must provide the following minimum limit:

$1,000,000	Combined single limit each accident

1-07.18(5)C Workers' Compensation

The Contractor shall comply with Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington.

1-07.23 (1) Public Convenience and Safety

Construction Under Traffic

Supplement this section with the following:

(*****)

The Contractor shall be responsible for notifying private property owners, or tenants, two (2) working days in advance of scheduled interruptions of access to private roads or driveways. The Contractor shall only interrupt access to one half of any private road or driveway. The Contractor shall notify the Engineer three (3) working days in advance of scheduled interruptions of access to private road or driveways. The Contractor shall notify private property owners, or tenants, by having a representative of the Contractor personally contact the private property owner or tenant. If the property owner or tenant is not available, the Contractor shall leave a door hanger notice indicating the commencement date of work, duration of work, the type of work being done, and the Contractor's and Engineer's phone number and address for questions and concerns. The Engineer shall be provided adequate time to review, comment, and approve the door hanger notice prior to the Contractor placing any notices. Access shall be restored as soon as possible, but not later than the end of each working day. Any exception will only be allowed with the approval of the private property owner, or tenant, and the Engineer.

All costs involved with public notification shall be incidental to the various bid items.

There shall be no delay to medical, fire, police, or other emergency vehicles with flashing lights or sirens. The Contractor shall alert all flaggers and personnel of this requirement. Reasonable provisions shall be made by the Contractor to accommodate medical, fire, police, or other emergency vehicles with flashing lights or sirens during periods of roadway closure to public traffic.

(January 2, 2012)
Work Zone Clear Zone

The Work Zone Clear Zone (WZCZ) applies during working and nonworking hours. The WZCZ applies only to temporary roadside objects introduced by the Contractor's operations and does not apply to preexisting conditions or permanent Work. Those work operations that are actively in progress shall be in accordance with adopted and approved Traffic Control Plans, and other contract requirements.

During nonworking hours equipment or materials shall not be within the WZCZ unless they are protected by permanent guardrail or temporary concrete barrier. The use of temporary concrete barrier shall be permitted only if the Engineer approves the installation and location.

During actual hours of work, unless protected as described above, only materials absolutely necessary to construction shall be within the WZCZ and only construction vehicles absolutely necessary to construction shall be allowed within the WZCZ or allowed to stop or park on the shoulder of the roadway.

The Contractor's nonessential vehicles and employees private vehicles shall not be permitted to park within the WZCZ at any time unless protected as described above.

Deviation from the above requirements shall not occur unless the Contractor has requested the deviation in writing and the Engineer has provided written approval.

Minimum WZCZ distances are measured from the edge of traveled way and will be determined as follows:

Regulatory Posted Speed	Distance From Traveled Way (Feet)
35 mph or less	10 *
40 mph	15
45 to 55 mph	20
60 mph or greater	30

* or 2-feet beyond the outside edge of sidewalk

Minimum Work Zone Clear Zone Distance

Pedestrian Access

The Contractor shall keep all pedestrian routes and access point (including sidewalks and crosswalks when located within the project limits) open and clear at all times unless permitted otherwise by the Engineer in an approved traffic control plan.

Closure Restrictions
Full street closures will not be allowed.

Emergency traffic such as police, fire, and disaster units, shall be provided access at all times. Contractor shall keep police, fire and other emergency agencies continuously informed regarding access to each property in the project area. In addition, the Contractor shall coordinate Contractor activities with all disposal firms and transit bus service which may be operating in the project area. Safe and convenient access to bus zones shall be provided and maintained at all times by the Contractor. The Contractor shall be liable for any damages which may result from failure to provide reasonable access or coordination.

The Contractor shall maintain adequate ingress and egress at all times for vehicular and pedestrian traffic at all business locations and private property adjacent to the project site.

1-07.24 Rights of Way

(July 23, 2015 APWA GSP)

Delete this section and replace it with the following:

Street Right of Way lines, limits of easements, and limits of construction permits are indicated in the Plans. The Contractor's construction activities shall be confined within these limits, unless arrangements for use of private property are made.

Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of way and easements, both permanent and temporary, necessary for carrying out the work. Exceptions to this are noted in the Bid Documents or will be brought to the Contractor's attention by a duly issued Addendum.

Whenever any of the work is accomplished on or through property other than public Right of Way, the Contractor shall meet and fulfill all covenants and stipulations of any easement agreement obtained by the Contracting Agency from the owner of the private property. Copies of the easement agreements may be included in the Contract Provisions or made available to the Contractor as soon as practical after they have been obtained by the Engineer.

Whenever easements or rights of entry have not been acquired prior to advertising, these areas are so noted in the Plans. The Contractor shall not proceed with any portion of the work in areas where right of way, easements or rights of entry have not been acquired until the Engineer certifies to the Contractor that the right of way or easement is available or that the right of entry has been received. If the Contractor is delayed due to acts of omission on the part of the Contracting Agency in obtaining easements, rights of entry or right of way, the Contractor will be entitled to an extension of time. The Contractor agrees that such delay shall not be a breach of contract.

Each property owner shall be given 48 hours notice prior to entry by the Contractor. This includes entry onto easements and private property where private improvements must be adjusted.

The Contractor shall be responsible for providing, without expense or liability to the Contracting Agency, any additional land and access thereto that the Contractor may desire for temporary construction facilities, storage of materials, or other Contractor needs. However, before using any private property, whether adjoining the work or not, the Contractor shall file with the Engineer a written permission of the private property owner, and, upon vacating the premises, a written release from the property owner of each property disturbed or otherwise interfered with by reasons of construction pursued under this contract. The statement shall be signed by the private property owner, or proper authority acting for the owner of the private property affected, stating that permission has been granted to use the property and all necessary permits have been obtained or, in the case of a release, that the restoration of the property has been satisfactorily accomplished. The statement shall include the parcel number, address, and date of signature. Written releases must be filed with the Engineer before the Completion Date will be established.

1-07.26 PERSONAL LIABILITY OF PUBLIC OFFICERS

This section is revised to read:

(*****)
Neither the Carnation City Council Members, employees of the City, or the Engineer shall be personally liable for any acts or failure to act in connection with the Contract, it being understood that in such matters, they are acting solely as agents of the City of Carnation.

1-08 PROSECUTION AND PROGRESS

Add the following new section:

1-08.0 Preliminary Matters
(May 25, 2006 APWA GSP)

Add the following new section:

1-08.0(1) Preconstruction Conference
(October 10, 2008 APWA GSP)

Prior to the Contractor beginning the work, a preconstruction conference will be held between the Contractor, the Engineer and such other interested parties as may be invited. The purpose of the preconstruction conference will be:

1. To review the initial progress schedule;
2. To establish a working understanding among the various parties associated or affected by the work;
3. To establish and review procedures for progress payment, notifications, approvals, submittals, etc.;
4. To establish normal working hours for the work;
5. To review safety standards and traffic control; and
6. To discuss such other related items as may be pertinent to the work.

The Contractor shall prepare and submit at the preconstruction conference the following:

1. A breakdown of all lump sum items;
2. A preliminary schedule of working drawing submittals; and
3. A list of material sources for approval if applicable.

Add the following new section:

1-08.0(2) Hours of Work
(December 8, 2014 APWA GSP)

Except in the case of emergency or unless otherwise approved by the Engineer, the normal working hours for the Contract shall be any consecutive 8-hour period between 7:00 a.m. and 6:00 p.m. Monday through Friday, exclusive of a lunch break. If the Contractor desires different than the normal working hours stated above, the request must be submitted in writing prior to the preconstruction conference, subject to the provisions below. The working hours for the Contract shall be established at or prior to the preconstruction conference.

All working hours and days are also subject to local permit and ordinance conditions (such as noise ordinances).

If the Contractor wishes to deviate from the established working hours, the Contractor shall submit a written request to the Engineer for consideration. This request shall state what hours are being requested, and why. Requests shall be submitted for review no later than noon prior to the day(s) the Contractor is requesting to change the hours.

If the Contracting Agency approves such a deviation, such approval may be subject to certain other conditions, which will be detailed in writing. For example:

1. On non-Federal aid projects, requiring the Contractor to reimburse the Contracting Agency for the costs in excess of straight-time costs for Contracting Agency representatives who worked during such times. (The Engineer may require designated representatives to be present during the work. Representatives who may be deemed necessary by the Engineer include, but are not limited to: survey crews; personnel from the Contracting Agency's material testing lab; inspectors; and other Contracting Agency employees or third party consultants when, in the opinion of the Engineer, such work necessitates their presence.)
2. Considering the work performed on Saturdays, Sundays, and holidays as working days with regard to the contract time.
3. Considering multiple work shifts as multiple working days with respect to contract time even though the multiple shifts occur in a single 24-hour period.
4. If a 4-10 work schedule is requested and approved the non working day for the week will be charged as a working day.
5. If Davis Bacon wage rates apply to this Contract, all requirements must be met and recorded properly on certified payroll

1-08.3(2)A Type A Progress Schedule
(March 13, 2012 APWA GSP)

Revise this section to read:

The Contractor shall submit four (4) copies of a Type A Progress Schedule no later than at the preconstruction conference, or some other mutually agreed upon submittal time. The schedule may be a critical path method (CPM) schedule, bar chart, or other standard schedule format. Regardless of which format used, the schedule shall identify the critical path. The Engineer will evaluate the Type A Progress Schedule and approve or return the schedule for corrections within 15 calendar days of receiving the submittal.

1-08.4 Prosecution of Work

Delete this section and replace it with the following:

1-08.4 Notice to Proceed and Prosecution of Work
(July 23, 2015 APWA GSP)

Notice to Proceed will be given after the contract has been executed and the contract bond and evidence of insurance have been approved and filed by the Contracting Agency. The Contractor shall not commence with the work until the Notice to Proceed has been given by the Engineer. The Contractor shall commence construction activities on the project site within ten days of the Notice to Proceed Date, unless otherwise approved in writing. The Contractor shall diligently pursue the work to the physical completion date within the time specified in the contract. Voluntary shutdown or slowing of operations by the Contractor shall not relieve the Contractor of the responsibility to complete the work within the time(s) specified in the contract.

When shown in the Plans, the first order of work shall be the installation of high visibility fencing to delineate all areas for protection or restoration, as described in the Contract. Installation of high visibility fencing adjacent to the roadway shall occur after the placement of all necessary signs and traffic control devices in accordance with 1-10.1(2). Upon construction of the fencing, the Contractor shall request the Engineer to inspect the fence. No other work shall be performed on the site until the Contracting Agency has accepted the installation of high visibility fencing, as described in the Contract.

1-08.5 Time for Completion

This Section is supplemented with the following:

This project shall be physically completed within **20** working days after the Notice to Proceed.

Revise the third and fourth paragraphs to read:

Contract time shall begin on the first working day following the Notice to Proceed Date.

Each working day shall be charged to the contract as it occurs, until the contract work is physically complete. If substantial completion has been granted and all the authorized working days have been used, charging of working days will cease. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily be charged as a working day

then the fifth day of that week will be charged as a working day whether or not the Contractor works on that day.

Revise the sixth paragraph to read:

The Engineer will give the Contractor written notice of the completion date of the contract after all the Contractor's obligations under the contract have been performed by the Contractor. The following events must occur before the Completion Date can be established:

1. The physical work on the project must be complete; and
2. The Contractor must furnish all documentation required by the contract and required by law, to allow the Contracting Agency to process final acceptance of the contract. The following documents must be received by the Project Engineer prior to establishing a completion date:
   a. Certified Payrolls (per Section 1-07.9(5)).
   b. Material Acceptance Certification Documents
   c. Quarterly Reports of Amounts Credited as DBE Participation, as required by the Contract Provisions.
   d. Final Contract Voucher Certification
   e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all Subcontractors
   f. Property owner releases per Section 1-07.24

1-08.9 Liquidated Damages

(August 14, 2013 APWA GSP)

Revise the fourth paragraph to read:

When the Contract Work has progressed to Substantial Completion as defined in the Contract, the Engineer may determine that the work is Substantially Complete. The Engineer will notify the Contractor in writing of the Substantial Completion Date. For overruns in Contract time occurring after the date so established, the formula for liquidated damages shown above will not apply. For overruns in Contract time occurring after the Substantial Completion Date, liquidated damages shall be assessed on the basis of direct engineering and related costs assignable to the project until the actual Physical Completion Date of all the Contract Work. The Contractor shall complete the remaining Work as promptly as possible. Upon request by the Project Engineer, the Contractor shall furnish a written schedule for completing the physical Work on the Contract.

1-09.2(1) General Requirements for Weighing Equipment

(July 23, 2015 APWA GSP, Option 2)

Revise item 4 of the fifth paragraph to read:

4. Test results and scale weight records for each day's hauling operations are provided to the Engineer daily. Reporting shall utilize WSDOT form 422-027, Scaleman's Daily Report, unless the printed ticket contains the same information that is on the

Scaleman's Daily Report Form. The scale operator must provide AM and/or PM tare weights for each truck on the printed ticket.

1-09.6 FORCE ACCOUNT

(October 10, 2008 APWA GSP)

Supplement this section with the following:

The Contracting Agency has estimated and included in the Proposal, dollar amounts for all items to be paid per force account, only to provide a common proposal for Bidders. All such dollar amounts are to become a part of Contractor's total bid. However, the Contracting Agency does not warrant expressly or by implication, that the actual amount of work will correspond with those estimates. Payment will be made on the basis of the amount of work actually authorized by Engineer.

1-09.9 Payments

(March 13, 2012 APWA GSP)

Supplement this section with the following:

Lump sum item breakdowns are not required when the bid price for the lump sum item is less than $10,000.

1-09.9 Payments

(March 13, 2012 APWA GSP)

Delete the first four paragraphs and replace them with the following:

The basis of payment will be the actual quantities of Work performed according to the Contract and as specified for payment.

The Contractor shall submit a breakdown of the cost of lump sum bid items at the Preconstruction Conference, to enable the Project Engineer to determine the Work performed on a monthly basis. A breakdown is not required for lump sum items that include a basis for incremental payments as part of the respective Specification. Absent a lump sum breakdown, the Project Engineer will make a determination based on information available. The Project Engineer's determination of the cost of work shall be final.

Progress payments for completed work and material on hand will be based upon progress estimates prepared by the Engineer. A progress estimate cutoff date will be established at the preconstruction conference.

The initial progress estimate will be made not later than 30 days after the Contractor commences the work, and successive progress estimates will be made every month thereafter until the Completion Date. Progress estimates made during progress of the work are tentative, and made only for the purpose of determining progress payments.

The progress estimates are subject to change at any time prior to the calculation of the final payment.

The value of the progress estimate will be the sum of the following:

1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of work completed multiplied by the unit price.
2. Lump Sum Items in the Bid Form — based on the approved Contractor's lump sum breakdown for that item, or absent such a breakdown, based on the Engineer's determination.
3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site or other storage area approved by the Engineer.
4. Change Orders — entitlement for approved extra cost or completed extra work as determined by the Engineer.

Progress payments will be made in accordance with the progress estimate less:

1. Retainage per Section 1-09.9(1), on non FHWA-funded projects;
2. The amount of progress payments previously made; and
3. Funds withheld by the Contracting Agency for disbursement in accordance with the Contract Documents.

Progress payments for work performed shall not be evidence of acceptable performance or an admission by the Contracting Agency that any work has been satisfactorily completed. The determination of payments under the contract will be final in accordance with Section 1-05.1.

1-09.11(3) TIME LIMITATION AND JURISDICTION

(July 23, 2015 APWA GSP)

Revise this section to read*:*

For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.05 shall control venue and jurisdiction. The parties understand and agree that the Contractor's failure to bring suit within the time period provided, shall be a complete bar to any such claims or causes of action. It is further mutually agreed by the parties that when any claims or causes of action which the Contractor asserts against the Contracting Agency arising from the Contract are filed with the Contracting Agency or initiated in court, the Contractor shall permit the Contracting Agency to have timely access to any records deemed necessary by the Contracting Agency to assist in evaluating the claims or action.

1-09.13 CLAIMS RESOLUTION

1-09.13(3) Claims $250,000 or Less
(October 1, 2005 APWA GSP)
Delete this Section and replace it with the following:

The Contractor and the Contracting Agency mutually agree that those claims that total $250,000 or less, submitted in accordance with Section 1-09.11 and not resolved by nonbinding ADR processes, shall be resolved through litigation unless the parties mutually agree in writing to resolve the claim through binding arbitration.

1-09.13(3)A ADMINISTRATION OF ARBITRATION

(July 23, 2015 APWA GSP)

Revise the third paragraph to read:

The Contracting Agency and the Contractor mutually agree to be bound by the decision of the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in the Superior Court of the county in which the Contracting Agency's headquarters is located, provided that where claims subject to arbitration are asserted against a county, RCW 36.01.05 shall control venue and jurisdiction of the Superior Court. The decision of the arbitrator and the specific basis for the decision shall be in writing. The arbitrator shall use the Contract as a basis for decisions.

1-10 TEMPORARY TRAFFIC CONTROL

1-10.2 TRAFFIC CONTROL MANAGEMENT

1-10.2(1) General

(January 8, 2016 WSDOT GSP)

Supplement this section with the following:

Only training with WSDOT TCS card and WSDOT training curriculum is recognized in the State of Washington. The Traffic Control Supervisor shall be certified by one of the following:

(January 8, 2016)
Only training with WSDOT TCS card and WSDOT training curriculum is recognized in the State of Washington. The Traffic Control Supervisor shall be certified by one of the following:

The Northwest Laborers-Employers Training Trust
27055 Ohio Ave.
Kingston, WA 98346
(360) 297-3035

Evergreen Safety Council
12545 135th Ave. NE
Kirkland, WA 98034-8709

1-800-521-0778 or
(425) 814-3930

The American Traffic Safety Services Association
15 Riverside Parkway, Suite 100
Fredericksburg, Virginia 22406-1022
Training Dept. Toll Free (877) 642-4637
Phone: (540) 368-1701

Division 2
Earthwork

2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP

2-01.1 DESCRIPTION

Section 2-01.1 is supplemented with the following:

(March 13, 1995)
Clearing and grubbing on this project shall be performed within the following limits:

Within the project limits, and within the right of way, adjacent to E. Rutherford Street between Tolt Avenue and Spillman Avenue

2-01.2(1) DISPOSAL METHOD N. 1 – OPEN BURNING

This section is deleted.

Section 2-02.3(3) is supplemented with the following:

2-02 Removal of Structures and Obstructions

2-02.3 Construction Requirements

Section 2-02.3 is supplemented with the following:

All material removed for the construction of the project shall be hauled off-site to a legal disposal site by the Contractor. The Contractor shall determine the requirements of his selected disposal site related to accepting the material to be deposited on the site. Testing of the material by the disposal site or refusal of the site to accept the material shall not be the basis for additional payment or for an extension of the contract time. The cost of all such requirements shall be included in the various bid prices in the Proposal.

The Contractor shall be responsible for ensuring that special precautions are undertaken so that no concrete or concrete by-products, or products and by-products used in the saw cut of ACP or concrete, are discharged into any storm drain or surface water system.

In accordance with the Department of Ecology guidelines, wastewater from Portland cement concrete, masonry, and asphalt concrete cutting operations shall not be discharged to storm drainage systems or surface waters. Cutting operations increase the pH of wastewater; therefore, filtering prior to discharge is NOT acceptable.

All wastewater shall be collected using a wet-dry vacuum or pumped into drums for disposal. Disposal of the waste liquid may be to soil or other porous surfaces away from storm drains and surface water, only if the Contractor collects and disposes of remaining sediment after water has filtered into soil or evaporated. Impervious surfaces contaminated with sediment and grit from cutting, planing, or pulverizing operations shall be cleaned by

sweepers to prevent contaminants from entering the storm drainage system or surface waters when it rains.

Saw cutting, flushing saw cuts with high pressure water and collection of wastewater with vacuum system, and pollution control shall be considered incidental to and included in the unit contract price for associated asphalt or cement concrete removal bid items which require saw cutting.

Tree removal shall include the removal and disposal of the entire tree including stumps, all associated debris. If it is determined by the Engineer that the removal of the entire stump is not feasible, the Contractor shall cut the trunk at least 2-inches below ground level and provide stump treatment. The tree stump shall be treated to prevent re-sprouting with an approved herbicide according to the manufactures instructions.

2-02.3(3) Removal of Pavement, Sidewalks, Curbs, and Gutters

Section 2-02.3(3) is supplemented with the following:

Existing pavement shall be saw-cut before commencing removal as required for the construction and approved by the Engineer. Pavement thickness and extent may vary throughout the project. Removal shall be accomplished by making a neat longitudinal vertical cut along the boundaries of the area to be removed. All cuts shall be continuous, and shall be made with saws specifically equipped for this purpose. No skip cutting will be allowed.

Any pavement, sidewalk, or curb and gutter that is damaged, and not designated for removal as shown on the Plans or preapproved by the Owner, shall be repaired or replaced entirely at the Contractor's expense. All saw cutting required shall be considered incidental to the project and no compensation will be allowed. The width and location of cuts shall be preapproved by the Engineer before cutting of pavement.
Wheel cutting or jack hammering will not be considered an acceptable means of pavement "cutting", unless preapproved by the Engineer. Saw cutting will not be required where pavement is removed by grinding.

(February 17, 1998)
Removal of Obstructions

Existing Sidewalk – 13+00 Lt and 11+43 Rt – 35 SF
Existing Driveway – 13+70 Lt – 100 SF
Existing Sidewalk – 16+52 Lt – 8 SF
Existing Crosswalk – 11+45 – 70 LF
Existing Stopbar – 17+75 22- Lt – 9 LF
Existing Tree Removal (all diameters) 4 EA
Existing Fencing – Vicinity of Stationing 11+85 – 13+50 LT, 16+50 – 17+60 LT, and 16+75 – 17+15 RT

2-02.3(20) Roadway Repair (New Section)

Where unsuitable base material is identified by the Engineer, the Contractor shall dig-out "soft spots" as directed by the engineer. The dig-outs will not be more than two-feet deep.

Excavated materials shall be hauled off the project site by the Contractor. A woven geotextile shall be placed on the bottom and sides of the excavated area and light loose rip rap placed even with the road sub-base. Crushed Rock above the repaired area will be paid by it's contract unit bid price.

2-02.4 Measurement

Section 2-02.4 is supplemented with the following:

Sawcutting Asphalt Pavement shall be measured by the linear foot with the assumption, based on available information, that the maximum depth will be 4-inches for sawcutting of asphalt pavement and/or cement concrete pavement.

Roadway Repair by the square yard.

2-02.5 Payment

Section 2-02.5 is revised by the following:

Payment for "Sawcutting Asphalt Pavement" shall be made at the unit contract price per linear foot of asphalt or cement concrete and shall be full pay for all labor, equipment and materials necessary to perform the work.

Roadway Repair by the square yard shall be full pay for all labor, equipment and materials necessary excavate, haul and dispose of excavated material, install geotextile fabric and rip rap and shall include all other incidentals necessary to complete the work.

4-04 BALLAST AND CRUSHED SURFACING

4-04.3(2) SUBGRADE (SUPPLEMENT)

This section is supplemented with the following:

Prior to placing crushed surfacing, the subgrade shall be proof rolled with a fully-loaded dump truck or equivalent to identify soft or unsuitable materials. All soft or otherwise unsuitable material shall be removed to the satisfaction of the Engineer and replaced with suitable material compacted as specified herein.

2-03 ROADWAY EXCAVATION AND EMBANKMENT

2-03.3(7) DISPOSAL OF SURPLUS MATERIALS

2-03.3(7)A GENERAL

This section is supplemented with the following:

Excavated material shall not be reused within the project area, all excavated materials shall be hauled to waste. All waste materials shall become the property of the contractor and shall be disposed of off-site at the contractor's expense.

2-03.4 Measurement

The first paragraph of Section 2-03.4 Measurement is deleted and replaced by the following:

Roadway Excavation Incl. Haul. shall be measured on the neat line shown in the Plans or as altered by the Engineer and shall include all excavation for roadway, bioswale and parking strip.

2-11 TRIMMING AND CLEANUP

2-11 TRIMMING AND CLEANUP

Section 2-11 of the Standard Specifications is supplemented with the following:

2-11.1 DESCRIPTION

The scope of the Trimming and Cleanup section includes general finishing and cleanup to preconstruction condition or better.

Repair of Public & Private Facilities by Force Account will be used for unforeseen repair, construction, or reconstruction of Public and Private Facilities not shown on the project plans, referenced in the Standard or Special provisions due to the Contractors activities. Repair of Public & Private Facilities does not include elements included in Trimming and Cleanup.

2-11.2 PRECONSTRUCTION PHOTOGRAPHS

The Engineer will take preconstruction photographs or video immediately prior to initiating construction in order to provide a substantiated record of the condition of existing improvement. These photographs or video shall be considered as indicative of the nature of the original improvements in determining the adequacy or inadequacy of restoration.

2-11.3 CONSTRUCTION REQUIREMENTS

Section 2-11.3 shall be supplemented with the following:

The Contractor shall take every possible precaution to preserve the existing improvements. All damages to existing improvements from the Contractor's operation, whether within the road right-of-way or in private property, shall be the sole responsibility of the Contractor to remedy. All such areas shall be restored to their preconstruction equivalent to the satisfaction of the Contracting Agency

During construction and then upon completion of the work, the Contractor shall thoroughly comb and search within the right of way and easements of the project and remove any construction material thrown or discarded amongst the trees, bushes, ditches, etc., such as paint cans, cartons, broken pipe, pavement pieces, paper; bottles,

etc., and as such tidy up the surrounding general area to make it neat in appearance, including removal of debris not deposited by Contractor's operation.

Paved surfaces, existing and new shall be thoroughly cleaned (power broom) upon completion of work within the area, and shall require daily cleaning if dust or mud exists. Prior to job acceptance, all streets shall be checked and cleaned.

General

1. Retain all stored materials and equipment in an orderly fashion allowing maximum access to project site, not impeding drainage or traffic, and providing protection.
2. Do not allow the accumulation of scrap, debris, waste material, and other items not required for this work.
3. At least twice each month, and more often if necessary, completely remove all scrap, debris, and waste material from the job site.
4. Provide adequate storage for all materials awaiting removal from the project site, observing all requirements for fire protection and protection of the environment.

Site

1. At least twice each month, and more often if necessary, inspect the site and pick up all scrap, debris, and waste material. Remove all such items to the place designated for their storage until it can be disposed of.
2. Weekly, and more often if necessary, inspect all arrangements of materials stored on the site, re-stack, tidy or otherwise service all arrangements to meet the requirements above.
3. Maintain the site in a neat and orderly condition at all times so as to meet the approval of the Contracting Agency.

Final Cleaning

Prior to final inspection, remove from the job site all tools, surplus materials, equipment, scrap, debris, and waste. The Contractor shall thoroughly comb and search the surrounding area and remove any construction material thrown or discarded amongst the trees, such as cartons, broken pipe, bottles, etc., and as such tidy up the surrounding general area to make it neat in appearance, including removal of debris not deposited by the Contractor's operation. Trimming and cleanup shall be complete and to the satisfaction of the Engineer before final acceptance of the contract is made.

2-11.3(2) UTILITY AND TRAFFIC IMPROVEMENTS

All culverts, catch basins, storm lines, rock lined ditches, posts, sidewalks, curbs and gutter, fences and gates, traffic signs, pavement markings, and mailboxes which are removed or disturbed during construction shall be reinstalled or replaced to the satisfaction of the Contracting Agency. All costs of repairing, replacing or repairing driveway and roadside culverts, catch basins, storm lines, rock lined ditches, posts, traffic signs, pavement marking, fences, sidewalks, curb and gutter, and mailboxes not included as part of the project work under other bid items, shall be included in the Bid Item “Trimming and Cleanup”.

2-11.3(3) CLEANING AND DRESSING

All areas disturbed by the Contractor including ditches and back slopes shall be smoothed, finished, and dressed to appear uniform in all respects in accordance with Section 2-11 of the Standard Specifications.

2-11.5 PAYMENT

Lump sum payment for “Trimming and Cleanup” shall be full pay for all work outlined in this section.

5-04 HOT MIX ASPHALT

5-4.2 MATERIALS

Amend this section with the following:

The Contractor shall use one of the detectable warning surface products listed in the Qualified Products List or seek approval through the WSDOT Request for Approval of Material process. The detectable warning surface shall have the truncated dome shape shown in the Plans. The minimum 2-foot-wide detectable warning surface area shall be yellow and shall match Federal Standard 595, color number 33538. When painting a detectable warning surface is required, such as on a steel detectable warning surface, the yellow paint shall conform to Section 9-08.1(8) and shall match Federal Standard 595, color number 33538.

5-04.3(3)A Material Transfer Device / Vehicle
(January 16, 2014 APWA GSP)

The first paragraph of this section is revised to read:

Additionally, a material transfer device or vehicle (MTD/V) is not required at the following locations Rutherford Street

5-04.3(7)A2 Statistical or Nonstatistical Evaluation

Delete this section and replace it with the following:

5-04.3(7)A2 Nonstatistical Evaluation
(January 16, 2014 APWA GSP)

Mix designs for HMA accepted by Nonstatistical evaluation shall;

- Be submitted to the Project Engineer on WSDOT Form 350-042
- Have the aggregate structure and asphalt binder content determined in accordance with WSDOT Standard Operating Procedure 732 and meet the requirements of Sections 9-03.8(2) and 9-03.8(6).
- Have anti-strip requirements, if any, for the proposed mix design determined in accordance with WSDOT Test Method T 718 or based on historic anti-strip and aggregate source compatibility from WSDOT lab testing. Anti-strip evaluation of HMA mix designs utilized that include RAP will be completed without the inclusion of the RAP.

At or prior to the preconstruction meeting, the contractor shall provide one of the following mix design verification certifications for Contracting Agency review;

- The proposed mix design indicated on a WSDOT mix design/anti-strip report that is within one year of the approval date
- The proposed HMA mix design submittal (Form 350-042) with the seal and certification (stamp & signature) of a valid licensed Washington State Professional Engineer.
- The proposed mix design by a qualified City or County laboratory mix design report that is within one year of the approval date.

The mix design will be performed by a lab accredited by a national authority such as Laboratory Accreditation Bureau, L-A-B for Construction Materials Testing, The Construction Materials Engineering Council (CMEC's) ISO 17025 or AASHTO Accreditation Program (AAP) and shall supply evidence of participation in the AASHTO Material Reference Laboratory (AMRL) program.

At the discretion of the Engineer, agencies may accept mix designs verified beyond the one year verification period with a certification from the Contractor that the materials and sources are the same as those shown on the original mix design.

5-04.3(8)A1 General

(January 16, 2014 APWA GSP)

Delete this section and replace it with the following:

Acceptance of HMA shall be as defined under nonstatistical or commercial evaluation.

Nonstatistical evaluation will be used for all HMA not designated as Commercial HMA in the contract documents.

The mix design will be the initial JMF for the class of HMA. The Contractor may request a change in the JMF. Any adjustments to the JMF will require the approval of the Project Engineer and must be made in accordance with Section 9-03.8(7).

Commercial evaluation may be used for Commercial HMA and for other classes of HMA in the following applications: sidewalks, road approaches, ditches, slopes, paths, trails, gores, prelevel, and pavement repair. Other nonstructural applications of HMA accepted by commercial evaluation shall be as approved by the Project Engineer. Sampling and testing of HMA accepted by commercial evaluation will be at the option of the Project Engineer. Commercial HMA can be accepted by a contractor certificate of compliance letter stating the material meets the HMA requirements defined in the contract.

5-04.3(8)A4 Definition of Sampling Lot and Sublot

(January 16, 2014 APWA GSP)

Section 5-04.3(8)A4 is supplemented with the following:

For HMA in a structural application, sampling and testing for total project quantities less than 400 tons is at the discretion of the engineer. For HMA used in a structural application and with a total project quantity less than 800 tons but more than 400 tons, a minimum of one acceptance test shall be performed:

i. If test results are found to be within specification requirements, additional testing will be at the engineers discretion.

ii. If test results are found not to be within specification requirements, additional testing as needed to determine a CPF shall be performed.

5-04.3(8)A5 Test Results

(January 16, 2014 APWA GSP)

The first paragraph of this section is deleted.

5-04.3(8)A6 Test Methods

(January 16, 2014 APWA GSP)

Delete this section and replace it with the following:

Testing of HMA for compliance of Va will be at the option of the Contracting Agency. If tested, compliance of Va will be use WSDOT Standard Operating Procedure SOP 731. Testing for compliance of asphalt binder content will be by WSDOT FOP for AASHTO T 308. Testing for compliance of gradation will be by WAQTC FOP for AASHTO T 27/T 11.

5-04.5 Payment

Section 5-04.5 is supplemented with the following:

(*****)

The unit price per ton for "HMA CL ½" PG 64-22" and "HMA CL ½ In. PG 64-22 Pedestrian Path" shall include all labor, equipment and materials necessary to place and compact the HMA in one or more layers as indicated in the Plans and these Specifications including preparing surfaces, paving, overlays, compaction, compacting testing, tack coat, anti-stripping additive, joint sealing and any other work necessary for a complete installation as defined in the Standard Specifications, these Special Provisions and the Plans.

5-04.5(1)B Price Adjustments for Quality of HMA Compaction

(January 16, 2014 APWA GSP)

Delete this section and replace it with the following:

The maximum CPF of a compaction lot is 1.00.

For each compaction lot of HMA when the CPF is less than 1.00, a Nonconforming Compaction Factor (NCCF) will be determined. THE NCCF equals the algebraic difference of CPF minus 1.00 multiplied by 40 percent. The Compaction Price Adjustment will be calculated as the product of the NCCF, the quantity of HMA in the lot in tons and the unit contract price per ton of the mix.

Division 8
Miscellaneous Construction

Erosion Control and Water Pollution Control

8-01.3(9)D Inlet Protection

Section 8-01.3(9)D is supplemented with the following:

Inlet protection can be in the form of internal devices and shall be installed prior to clearing, grubbing or earthwork activities. Catch Basin Inserts shall be installed on existing catch basins within the project area and those immediately downstream of the project site that could possibly receive sediment laden runoff for the site. They shall be installed and meet the requirements specified on the Plans. Simply placing a piece of geotextile under the catch basin grate is not acceptable.

When the depth of accumulated sediment and debris reaches approximately one-half the height of an internal device or one-third the height of the external device (or less if so specified by the manufacturers), the deposits shall be removed. Contractor shall be responsible for removing catch basin inserts upon completion of the project.

8-01.4 Measurement

Section 8-01.4 is deleted and replaced with the following:

Measurement for “Temporary Erosion and Sedimentation Control” shall be lump sum

8-01.5 Payment

Section 8-01.5 is deleted and replaced with the following:

“Temporary Erosion and Sedimentation Control”, lump sum.

The lump sum bid price for “Temporary Erosion and Sedimentation Control” shall constitute full pay for all labor, materials, tools, and equipment necessary and incidental to the installation of erosion and sediment control facilities including, but not limited to, the following:

- Erosion and sedimentation control installation and maintenance replacement and removal as required until project completion and approval
- Maintenance of catch basins including inlet protection, storm drains, ditches, and other drainage courses, including immediate removal and disposal of accumulated sedimentation
- Installation of Silt Fence

******

8-02.3(3) Weed and Pest Control

Plant Establishment

The fourth paragraph of Section 8-02.3(13) is deleted.

8-12 Chain Link Fence and Wire Fence

8-12.4 Measurement

The first paragraph of Section 8-12.4 is deleted and replace with the following:

Chain Link Fence Type 3, including Double 14' Chain Link Gate will be measured by the linear foot of completed fence.

8-12.5 Payment

The second paragraph of Section 8-12.5 is deleted and replace with the following:

The unit contract price per linear foot for "Chain Link Fence Type 3" shall be full payment for all costs for the specified work including Double 14' Chain Link Gate, brace post installation and all other requirements of Section 8-12 for Chain Link Fence.

8-26 Swale Construction (New Section)

8-26.1 Description

This Work consists of supplying and placing Bioretention Soil Media and Washed Graded Course Sand in accordance with details shown in the Plans and these Specifications and in conformity to lines and grades shown in the Plans or as established by the Engineer.

8-26.2 Materials

Materials shall meet the following requirements

Per DOE Stormwater Mgmt Manual, VOL.V, BMP 17.30 "Default Bioretention Soil Media (BSM)
Washed Graded Course Sand – ASTM C22

8-26.3 Construction Requirements

Bioretention Soil Media and Washed Graded Course Sand shall be placed and compacted in the Bioswale as shown in the contract plans

8-26.4 Measurement

Bioretention Soil Media and Washed Graded Course Sand shall be measured on the neat line shown in the Plans or as altered by the Engineer.

8-26.5 Payment

Payment will be made of the following Bid items that are included in the Proposal:

"Bioretention Soil Media", per CY
"Washed Graded Course Sand", per CY

8-27 Cedar Fence (New Section)

8-27.1 Description

This Work consists of constructing cedar fencing with details shown in the Plans and these Specifications and in conformity to locations shown in the Plans or as established by the Engineer.

8-27.2 Materials

Materials shall meet the following requirements:

All wood material shall be # 1 Western Red Cedar
1 7/8" & 2 1/4" Screw Shank Galvanized nails
All brackets and gate hardware shall be hot dipped galvanized
Commercial Concrete 6-02.3(2)B

8-27.3 Construction Requirements

The cedar post shall be set 24” deep in cement concrete. All fence material shall receive an oil-based, semitransparent stain as approved by the engineer. The contractor shall submit shop drawings or cut sheets of the fence gates and hardware to the engineer for approval. The existing gate at Station 13+00 LT shall be removed and returned to the landowner. All other fencing material shall become the property of the contractor. The new fences shall be connected to the existing fences where and as appropriate.

8-27.4 Measurement

48 In. Cedar Fence and 36 In. Cedar Fence will be measured by the linear foot and shall include all gates.

8-27.5 Payment

The linear foot price for 36 In. Cedar Fence and 48 In Cedar fence shall be full compensation for all costs incurred to perform the installation including the concrete for the posts, all gate hardware, connections to existing fencing, fencing and post caps.

Division 9
Materials

9-14.4(3) Bark or Wood Mulch

This section’s title is revised to read:

Bark or Wood Chip Mulch

The first paragraph is revised to read:

Bark or wood chip mulch shall be derived from fir, pine, or hemlock species. It shall not contain resin, tannin, or other compounds in quantities that would be detrimental to

plant life. Sawdust shall not be used as mulch. Mulch produced from finished wood products or construction debris will not be allowed

(April 4, 2016)

Standard Plans

The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-01 transmitted under Publications Transmittal No. PT 15-048, effective August 3, 2015 is made a part of this contract.

The Standard Plans are revised as follows:

A-30.15
DELETED

A-50.10
Sheet 2 of 2, Plan, with Single Slope Barrier, reference C-14a is revised to C-70.10

A-50.20
Sheet 2 of 2, Plan, with Anchored Barrier, reference C-14a is revised to C-70.10

A-50.30
Sheet 2 of 2, Plan (top), reference C-14a is revised to C-70.10

A-60.30
Note 4, was – "If the ACP and membrane is to be removed from the bridge deck, see GSP 023106 for deck preparation before placing new membrane." Is revised to read; "If the ACP and membrane is to be removed from the bridge deck, see GSP 6-02.3(10)D.OPT6.GB6 for deck preparation before placing new membrane."

B-10.20 and B-10.40
Substitute "step" in lieu of "handhold" on plan

B-15.60
Table, Maximum Knockout Size column, 120" Diam., 42" is revised to read; 96"

B-25.20
Add Note 7. See Standard Specification Section 8-04 for Curb and Gutter requirements

B-40.40
Note 2, was – "When bolt-down grates are specified in the Contract, provide two slots in the grate that are centered with the holes in the frame. Location of bolt-down slots varies among different manufacturers." Is revised to read; "Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 5/8" (in) – 11 NC x 2" (in) Allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturers."

B-55.20
Metal Pipe elevation, title is revised to read; "Metal Pipe and Steel Rib Reinforced Polyethylene Pipe"

B-90.40
Offset & Bend details, add the subtitle, "Plan View" above titles

C-8b

Section A, callout, was – “Grout” is revised to read; “Grout ~ 2” (IN) MAX., callout, was – “Anchor Bolt (TYP.) ~ See Detail” is revised to read; “Anchor Bolt or Rod (TYP.) ~ See Detail”, Sheet 2, Detail “A”, callout, was – “Anchor Bolt (TYP.) ~ See Detail”, is revised to read; “Anchor Bolt or Rod (TYP) ~ See Detail”. Anchor Bolt Detail, DELETED – Headed Bolt DETAIL portion of the ANCHOR BOLT DETAIL. Dimension, “5 1/2" MIN. Threads” is deleted. Add dimension, “1” MAX.” from top of barrier to bottom of the nut, Callout, was – “1” Diam. Threaded Rod ~ ASTM A 419” is revised to read; “1” (IN) Diam. Threaded Full Length Rod or Bolt ~ ASTM F 1554, Grade 105”. Note (Below Title), was – “Galvanize Exposed Anchor Rod End 1’ – 9” Min.” is revised to read; “Galvanized Anchor Bolt Full Length according to ASTM F 2329”. Subtitle – was “Threaded Rod” is revised to read; “Threaded Rod or Bolt”, Sheet 2, Anchor Plate detail, callout, was – 1” DIAM. HOLE (TYP.)” IS REVISED TO READ; “1 1/8” (IN) DIAM. HOLE (TYP.)” , callout, was – “/2” Plate” is revised to read;”1/2” (IN) Plate ~ ASTM A36

C-1

Assembly Detail, Steel Post, (post) callout – was - ”W6 x 9 or W6 x 15” is revised to read; “W6 x 8.5 or W6 x 9 or W6 x 15”

C-10

General Note 1, first sentence, was – “Length of W8 x 35 and W6 x 9 shall be determined by measurement from top of ground to top of grout pad.” Is revised to read; “Length of W8 x 35 and W6 x 8.5 or W6 x 9 shall be determined by measurement from top of ground to top of grout pad.”

Sheet 1, Post Base Plate Detail, callout, was – “W6 x 9” is revised to read; “W6 x 8.5 or W6 x 9”

Sheet 1, Box Culvert Guardrail Steel Post Type 2 detail, callout, was – “W6 x 9 Steel Post” is revised to read;” “W6 x 8.5 or W6 x 9 Steel Post”

Sheet 1, Post Anchor Attachment Detail, callout, was – “W6 x 9 ~ See Note 1” is revised to read; “W6 x 8.5 or W6 x 9 ~ See Note 1”

Sheet 1, Detail A, callout, was – “W6 x 9 Steel Post ~ See Note 1” is revised to read; “W6 x 8.5 or W6 x 9 Steel Post ~ See Note 1”

Sheet 2, Box Culvert Guardrail Steel Post Type 1, callout, was – “W6 x 9 x 27.5” Steel Post” is revised to read; “W6 x 8.5 x 27.5” (IN) or W6 x 9 x 27.5” (IN) Steel Post”

Sheet 2, Detail B, callout, was – “W6 x 9 x 27.5” Steel Post” is revised to read; “W6 x 8.5 x 27.5” (IN) or W6 x 9 x 27.5” (IN) Steel Post”

C-16a

Note 1, reference C-28.40 is revised to C-20.10

C-16b

Note 3, reference C-28.40 is revised to C-20.10

C-22.14

Plan, callout, was – “Location of Post (Without Block) ~ W6 x 9 Steel Post Only” is revised to read; “Location of Post (Without Block) ~ W6 x 8.5 or W6 x 9 Steel Post Only”

Elevation, callout, was – “Location of Post (Without Block) ~ W6 x 9 Steel Post Only” is revised to read; “Location of Post (Without Block) ~ W6 x 8.5 or W6 x 9 Steel Post Only”

C-22.45

Note 1, was – “This Terminal is FHWA accepted at Test Level Two (TL-2) and may be used in applications with speeds of 40 MPH or less.” Is revised to read: “This Terminal is

FHWA accepted at Test Level Two (TL-2) and may be used in applications with speeds of 45 MPH or less." Plan Title, was – "Beam Guardrail Type 31 Non – Flared Terminal Steel Posts (Posted Speed ~ 40 MPH and Below)" is revised to read: "Beam Guardrail Type 31 Non – Flared Terminal Steel Posts (Posted Speed ~ 45 MPH and Below

D-10.10

Wall Type 1 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT Bridge Design Manual (BDM) and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.15

Wall Type 2 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.20

Wall Type 3 may be used in all cases. The last sentence of Note 6 on Wall Type 3 shall be revised to read: The seismic design of these walls has been completed using a site adjusted (effective) peak ground acceleration of 0.32g.

D-10.25

Wall Type 4 may be used in all cases. The last sentence of Note 6 on Wall Type 4 shall be revised to read: The seismic design of these walls has been completed using a site adjusted (effective) peak ground acceleration of 0.32g.

D-10.30

Wall Type 5 may be used in all cases.

D-10.35

Wall Type 6 may be used in all cases.

D-10.40

Wall Type 7 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.45

Wall Type 8 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the revisions stated in the 11/3/15 Bridge Design memorandum.

D-15.10

STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

D-15.20

STD Plans D-15 series “Traffic Barrier Details for Reinforced Concrete Retaining Walls” are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

D-15.30

STD Plans D-15 series “Traffic Barrier Details for Reinforced Concrete Retaining Walls” are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

F-10.12

Section Title, was – “Depressed Curb Section” is revised to read: “Depressed Curb and Gutter Section”

F-10.40

“EXTRUDED CURB AT CUT SLOPE”, Section detail - Deleted

F-10.42

DELETE – “Extruded Curb at Cut Slope” View

G-24.40

Sheet 1, Elevation (upper left corner), callout, was – “Sign Brace~ 36” (IN) or larger in width required (See Standard Plan G-50.10)” is revised to read; “Sign Brace (See Standard Plan G-50.10)” Sheet 3, Elevation (upper left corner), callout, was – “Sign Brace~ 36” (IN) or larger in width required (See Standard Plan G-50.10)” is revised to read; “Sign Brace (See Standard Plan G-50.10)”

H-70.20

Sheet 2, Spacing Detail, Mailbox Support Type 1, reference to Standard Plan I-70.10 is revised to H-70.10

I-80.10

Stabilized Construction Entrance, Isometric View, add Note to read; “Note: At the discretion of the contractor, smaller rock may be used to fill in voids between the quarry spalls to create a walking pathway for crossing the construction entrance.”

J-3

DELETED

J-3b

DELETED

J-3C

DELETED

J-10.21

Note 18, was – “When service cabinet is installed within right of way fence, see Standard Plan J-10.22 for details.” Is revised to read; “When service cabinet is installed within right of way fence, or the meter base is mounted on the exterior of the cabinet, see Standard Plan J-10.22 for details.”

J-10.22

Key Note 1, was – “Meter base per serving utility requirements~ as a minimum, the meter base shall be safety socket box with factory-installed test bypass facility that meets the requirements of EUSERC drawing 305.” Is revised to read; “Meter base per serving utility requirements~ as a minimum, the meter base shall be safety socket box with factory-installed test bypass facility that meets the requirements of EUSERC drawing 305. When the utility requires meter base to be mounted on the side or back of the service cabinet, the meter base enclosure shall be fabricated from type 304 stainless steel.”
Key Note 4, “Test with (SPDT Snap Action, Positive close 15 Amp – 120/277 volt “T” rated). Is revised to read: “Test Switch (SPDT snap action, positive close 15 amp – 120/277 volt “T” rated).”
Key Note 14, was – “Hinged dead front with ¼ turn fasteners or slide latch.” Is revised to read; “Hinged dead front with ¼ turn fasteners or slide latch. ~ Dead front panel bolts shall not extend into the vertical limits of the breaker array(s).”
Key Note 15, was – “Cabinet Main Bonding Jumper. Buss shall be 4 lug tinned copper. See Cabinet Main bonding Jumper detail, Standard Plan J-3b.“ is revised to read; “Cabinet Main Bonding Jumper Assembly ~ Buss shall be 4 lug tinned copper ~ See Standard Plan J-10.20 for Cabinet Main Bonding Jumper Assembly details.”

J-20.10

Add Note 5, “5. One accessible pedestrian signal assembly per pedestrian pushbutton post.”

J-20.11

Sheet 2, Foundation Detail, Elevation, callout – “Type 1 Signal Pole” is revised to read: “Type PS or Type 1 Signal Pole”
Sheet 2, Foundation Detail, Elevation, add note below Title, “(Type 1 Signal Pole Shown)”
Add Note 6, “6. One accessible pedestrian signal assembly per pedestrian pushbutton post.”

J-20.26

Add Note 1, “1. One accessible pedestrian pushbutton station per pedestrian pushbutton post.”

J-20.16

View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE

J-21.10

Sheet 1 of 2, Elevation view (Round), add dimension depicting the distance from the top of the foundation to find 2 #4 reinforcing bar shown, to read; 3” CLR.. Delete “(TYP.)” from the 2 ½” CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.
Sheet 1 of 2, Elevation view (Square), add dimension depicting the distance from the top of the foundation to find 1 #4 reinforcing bar shown, to read; 3” CLR. Delete “(TYP.)” from the 2 ½” CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.
Sheet 2 of 2, Elevation view (Round), add dimension depicting the distance from the top of the foundation to find 2 #4 reinforcing bar shown, to read; 3” CLR. Delete “(TYP.)” from the 2 ½” CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.
Sheet 2 of 2, Elevation view (Square), add dimension depicting the distance from the top of the foundation to find 1 #4 reinforcing bar shown, to read; 3” CLR. Delete “(TYP.)” from

the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.

J-21.15

Partial View, callout, was – LOCK NIPPLE ~ 1 ½" DIAM., is revised to read; CHASE NIPPLE ~ 1 ½" (IN) DIAM.

J-21.16

Detail A, callout, was – LOCKNIPPLE, is revised to read; CHASE NIPPLE

J-22.15

Ramp Meter Signal Standard, elevation, dimension 4' - 6" is revised to read; 6'-0"
(2x) Detail A, callout, was – LOCK NIPPLE ~ 1 ½" DIAM. is revised to read; CHASE NIPPLE ~ 1 ½" (IN) DIAM.

J-28.45

Steel Light Standard Elbow Detail, dimension, was – "1-1/2" MAX." is revised to read; 2" MAX.. callout, was – "1.00 – 8 UNC x 8" (IN) long bolt threaded full length (ASTM A325 or F1554 GR. 105) with two heavy hex nuts, two plate washers, and a round washer (Typ.) (Galvanized AASHTO M232)"is revised to read; "1.00 – 8 UNC x 8 1/2" (IN) long bolt threaded full length (ASTM A325 or F1554 GR. 105) with two heavy hex nuts, two plate washers, and a round washer (Typ.) (Galvanized per AASHTO F2329)". callout, was – "3/16" (IN) thick preformed "Fabreeka" fabric pad with 5" (IN) diam. hole ~ cement to flange plate and trim outside edge flush" is revised to read; "3/16" (IN) or 1/4" (IN) thick preformed "Fabreeka" fabric pad with 5" (IN) diam. hole ~ cement to flange plate and trim outside edge flush". Exploded Isometric View, callout, was – "1" (IN) Diam. Heavy Hex Bolt (Typ.)" is revised to read;1" Diam. Bolt (Typ.). Section B, callout, was – "3 1/2" (IN) x 3/16" (IN)(17" (IN)…" is revised to read; "4" (IN) x 3/16" (IN)(17" (IN)…". Typical Sections, two traffic barrier views, add dimension [from the top of the pole base plate to the bottom of the Hand Hole]"6" MIN.". all three views, callout, was – "1" (IN) Diam. H. S. bolt w/ hardened lock washer and nut (Typ.) (ASTM A325 or F1554 GR. 105)" is revised to read; "1" (IN) Diam. H. S. bolt w/ hardened lock washer and nut (Typ.) (ASTM A449 or F1554 GR. 105)".

J-28.50

Section D, callout, was – Backup Strip (ref. to key note 3) is revised to read; "Continuous Backup Strip (ref. to key note 3)"
Key Note 3, was – ¼" Thick, or No thinner than pole wall thickness. Tack weld or seal weld to Base plate. Is revised to read; "1/4" Thick, or No thinner than Pole wall thickness. Tack weld in root or continuous seal weld to Base plate or Pole wall."

J-28.60

Section B, callout, was – "Continuous Back-up ring – 1/4" or no thinner than pole wall thickness ~ tack weld to plate" is revised to read; "Continuous Back-up ring ~ 1/4" or no thinner than pole wall thickness ~ tack weld in root or continuous seal weld to base plate or pole wall"

J-28.70

Detail C, dimension, 2" MAX. is revised to read: 1" MAX.
Detail D, dimension, 2" MAX. is revised to read: 1" MAX.

J-29.10

Galvanized Welded Wire Mesh detail, callout – “Drill and Tap for ¼” Diam. Cap Screw, 3 Places, @ 9” center, all 4 edges S.S. Screw, ASTM F593 and washer”
Is revised to read;
“*Drill and Tap ¼” (IN) Diam. x 1” (IN) Cap Screw with washer ~ space approx.. 9” o.c. ~ Liberally coat threads with Anti-seize compound (TYP.)”

Add Boxed note: * Bolts, Nuts, and washers ~ ASTM F593 or A193 Type 304 or Type 316 Stainless Steel (S.S.)

J-29.15
Title, “Camera Pole Standard” is revised to read; “Camera Pole Standard Details”

J-29-16
Title, “Camera Pole Standard Details” is revised to read; “Camera Pole Details”

J-40.10
Sheet 2 of 2, Detail F, callout, “12 – 13 x 1 ½” S.S. PENTA HEAD BOLT AND 12” S. S. FLAT WASHER” is revised to read; “12 – 13 x 1 ½” S.S. PENTA HEAD BOLT AND 1/2” (IN) S. S. FLAT WASHER”

J-60.14
All references to J-16b (6x) are revised to read; J-60.11

J-90.10
Section B, callout, “Hardware Mounting Rack ~ S. S. 1-5/8” Slotted Channel” is revised to read: “Hardware Mounting Rack (Typ.) ~ Type 304 S. S. 1-5/8” Slotted Channel”

J-90.20
Section B, callout, “Hardware Mounting Rack (Typ.) ~ S. S. 1-5/8” Slotted Channel” is revised to read: “Hardware Mounting Rack (Typ.) ~ Type 304 S. S. 1-5/8” Slotted Channel”

K-80.10
Sign Installation (Fill Section), dimension, 6’ TO 12’ MIN. is revised to read: 12’ MIN.
Sign Installation (Sidewalk and Curb Section), dimension, 6’ TO 12’ MIN. is revised to read: 12’ MIN.
Sign Installation (Behind Traffic Barrier Section), Delete dimensions - 6’ TO 12’ MIN. and 6’ MIN.
Sign with Supplemental Plaque Installation (Fill Section), dimension, 6’ TO 12’ MIN. is revised to read: 12’ MIN.
Sign Installation (Ditch Section), dimension, 6’ TO 12’ MIN. is revised to read: 12’ MIN. Delete dimension – 6’ MIN.

K-80.30
In the NARROW BASE, END view, the reference to Std. Plan C-8e is revised to Std. Plan K-80.35

M-11.10
Layout, dimension (from stop bar to “X”), was – 23’ is revised to read; 24’

M-20.30

Sheet 2, Plan View, One-Way Roadway Recessed Pavement Marker Details, ONE-WAY TRAFFIC arrow symbol, is revised to point in the opposite direction (towards the rpm)

The following are the Standard Plan numbers applicable at the time this project was advertised. The date shown with each plan number is the publication approval date shown in the lower right-hand corner of that plan. Standard Plans showing different dates shall not be used in this contract.

A-10.10-00.....8/7/07
A-10.20-00.....10/5/07
A-10.30-00.....10/5/07
A-20.10-00.....8/31/07
A-30.10-00.....11/8/07
A-30.30-01.....6/16/11
A-30.35-00.....10/12/07
A-40.00-00.....8/11/09
A-40.10-03.....12/23/14
A-40.15-00.....8/11/09
A-40.20-03.....12/23/14
A-40.50-02.....12/23/14
A-50.10-00…....11/17/08
A-50.20-01…....9/22/09
A-50.30-00…....11/17/08
A-50.40-00…....11/17/08
A-60.10-03.....12/23/14
A-60.20-03.....12/23/14
A-60.30-00.....11/8/07
A-60.40-00.....8/31/07

B-5.20-01.....6/16/11
B-5.40-01.....6/16/11
B-5.60-01.....6/16/11
B-10.20-01.....2/7/12
B-10.40-00.....6/1/06
B-10.60-00.....6/8/06
B-15.20-01.....2/7/12
B-15.40-01.....2/7/12
B-15.60-01.....2/7/12
B-20.20-02.....3/16/12
B-20.40-03.....3/16/12
B-20.60-03.....3/15/12
B-25.20-01.....3/15/12
B-25.60-00.....6/1/06
B-30.10-01.....4/26/12
B-30.20-02.....4/26/12
B-30.30-01.....4/26/12
B-30.40-01.....4/26/12
B-30.50-01.....4/26/12
B-30.70-03.....4/26/12
B-30.80-00.....6/8/06
B-30.90-01.....9/20/07
B-35.20-00.....6/8/06
B-35.40-00.....6/8/06
B-40.20-00.....6/1/06
B-40.40-01.....6/16/10
B-45.20-00.....6/1/06
B-45.40-00.....6/1/06
B-50.20-00.....6/1/06
B-55.20-00.....6/1/06
B-60.20-00.....6/8/06
B-60.40-00.....6/1/06
B-65.20-01.....4/26/12
B-65.40-00.....6/1/06
B-70.20-00.....6/1/06
B-70.60-00.....6/1/06
B-75.20-01.....6/10/08
B-75.50-01.....6/10/08
B-75.60-00.....6/8/06
B-80.20-00.....6/8/06
B-80.40-00.....6/1/06
B-82.20-00.....6/1/06
B-85.10-01.....6/10/08
B-85.20-00.....6/1/06
B-85.30-00.....6/1/06
B-85.40-00.....6/8/06
B-85.50-01.....6/10/08
B-90.10-00.....6/8/06
B-90.20-00.....6/8/06
B-90.30-00.....6/8/06
B-90.40-00.....6/8/06
B-90.50-00.....6/8/06
B-95.20-01.....2/3/09
B-95.40-00.....6/8/06

C-1.....6/16/11
C-1a.....7/14/15
C-1b.....7/14/15
C-1c.....5/30/97
C-1d.....10/31/03
C-2.....1/6/00
C-2a.....6/21/06
C-2b.....6/21/06
C-2c.....6/21/06
C-2d.....6/21/06
C-2e.....6/21/06
C-2f.....3/14/97
C-2g.....7/27/01
C-2h.....3/28/97
C-2i.....3/28/97
C-2j.....6/12/98
C-2k.....7/27/01
C-6.....5/30/97
C-6a.....10/14/09
C-6c.....1/6/00
C-6d.....5/30/97
C-6f.....7/25/97
C-7.....6/16/11
C-7a.....6/16/11
C-8.....2/10/09
C-8a.....7/25/97
C-8b.....6/27/11
C-8e.....2/21/07
C-8f.....6/30/04
C-10.....6/3/10
C-16a.....6/3/10
C-20.10-03.....7/14/15
C-20.14-03.....6/11/14
C-20.15-02.....6/11/14
C-23.60-03.....6/11/14
C.24.10-01.....6/11/14
C-25.18-05.....7/14/15
C-25.20-06.....7/14/15
C-25.22-05.....7/14/15
C-25.26-03.....7/14/15
C-25.80-03.....6/11/14
C-40.14-02.....7/2/12
C-40.16-02.....7/2/12
C-40.18-02.....7/2/12
C-70.10-01.....6/17/14
C-75.10-01.....6/11/14
C-75.20-01.....6/11/14
C-75.30-01.....6/11/14
C-80.10-01.....6/11/14
C-80.20-01.....6/11/14
C-80.30-01.....6/11/14

C-2n.....7/27/01
C-2o.....7/13/01
C-2p.....10/31/03
C-3.....7/2/12
C-3a.....10/4/05
C-3b.....6/27/11
C-3c.....6/27/11
C-4b.....6/8/06
C-4e.....10/23/14
C-4f.....7/2/12
C-16b.....6/3/10
C-20.18-02.....6/11/14
C-20.19-02.....6/11/14
C-20.40-05.....7/14/15
C-20.41-01.....7/14/15
C-20.42-05.....7/14/15
C-20.45.01.....7/2/12
C-22.14-03.....6/11/14
C-22.16-05.....7/14/15
C-22.40-04.....10/23/14
C-22.41-01.....10/23/14
C-22.45-01.....10/23/14
C-80.40-01.....6/11/14
C-80.50-00.....4/8/12
C-85.10-00.....4/8/12
C-85.11-00.....4/8/12
C-85.14-01.....6/11/14
C-85.15-01.....6/30/14
C-85.16-01.....6/17/14
C-85-18-01.....6/11/14
C-85.20-01.....6/11/14
C-90.10-00.....7/3/08

1

D-2.04-00.....11/10/05
D-2.06-01.....1/6/09
D-2.08-00.....11/10/05
D-2.14-00.....11/10/05
D-2.16-00.....11/10/05
D-2.18-00.....11/10/05
D-2.20-00.....11/10/05
D-2.32-00.....11/10/05
D-2.34-01.....1/6/09
D-2.36-03.....6/11/14
D-2.42-00.....11/10/05
D-2.44-00.....11/10/05
D-2.60-00.....11/10/05
D-2.62-00.....11/10/05
D-2.46-01.....6/11/14
D-2.48-00.....11/10/05
D-2.64-01.....1/6/09
D-2.66-00.....11/10/05
D-2.68-00.....11/10/05
D-2.80-00.....11/10/05
D-2.82-00.....11/10/05
D-2.84-00.....11/10/05
D-2.86-00.....11/10/05
D-2.88-00.....11/10/05
D-2.92-00.....11/10/05
D-3.09-00.....5/17/12
D-3.10-01……5/29/13
D-3.11-03……6/11/14
D-3.15-02……6/10/13
D-3.16-02……5/29/13
D-3.17-01……5/17/12
D-4.....12/11/98
D-6.....6/19/98
D-10.10-01.....12/2/08
D-10.15-01.....12/2/08
D-10.20-00.....7/8/08
D-10.25-00.....7/8/08
D-10.30-00.....7/8/08
D-10.35-00.....7/8/08
D-10.40-01.....12/2/08
D-10.45-01.....12/2/08
D-15.10-01.....12/2/08
D-15.20-02.....6/2/11
D-15.30-01.....12/02/08

2

E-1.....2/21/07
E-2.....5/29/98
E-4.....8/27/03
E-4a.....8/27/03

3

F-10.12-03.....6/11/14
F-10.16-00.....12/20/06
F-10.18-00.....6/27/11
F-10.40-02.....6/21/12
F-10.42-00.....1/23/07
F-10.62-02.....4/22/14
F-10.64-03.....4/22/14
F-30.10-03.....6/11/14
F-40.12-02.....6/20/13
F-40.14-02.....6/20/13
F-40.15-02.....6/20/13
F-40.16-02.....6/20/13
F-45.10-01.....6/21/12
F-80.10-03.....6/11/14

4

G-10.10-00.....9/20/07
G-20.10-02.....6/23/15
G-22.10-03.....7/10/15
G-24.10-00.....11/8/07
G-24.20-01.....2/7/12
G-24.30-01.....2/7/12
G-24.40-05.....6/23/15
G-24.50-03.....6/17/14
G-24.60-04.....6/23/15
G-25.10-04.....6/10/13
G-30.10-04.....6/23/15
G-50.10-02.....6/23/15
G-60.10-03.....6/18/15
G-60.20-02.....6/18/15
G-60.30-02.....6/18/15
G-70.10-03.....6/18/15
G-70.20-02....6/10/13
G-70.30-02.....6/10/13
G-90.10-01…..5/11/11
G-90.20-03…..7/10/15
G-90.30-02…..3/22/13
G-90.40-01…..10/14/09
G-95.10-01.....6/2/11
G-95.20-02.....6/2/11
G-95.30-02.....6/2/11

5

H-10.10-00.....7/3/08
H-10.15-00.....7/3/08
H-30.10-00.....10/12/07
H-32.10-00.....9/20/07
H-60.10-01.....7/3/08
H-60.20-01.....7/3/08
H-70.10-01.....2/7/12
H-70.20-01.....2/16/12
H-70.30-02.....2/7/12

6

I-10.10-01.....8/11/09
I-30.20-00.....9/20/07
I-40.20-00.....9/20/07

I-30.10-02.....3/22/13
I-30.15-02.....3/22/13
I-30.16-00.....3/22/13
I-30.17-00.....3/22/13
I-30.30-01.....6/10/13
I-30.40-01.....6/10/13
I-30.60-00.....5/29/13
I-40.10-00.....9/20/07
I-50.20-01.....6/10/13
I-60.10-01.....6/10/13
I-60.20-01.....6/10/13
I-80.10-01.....8/11/09

1

J-10.....7/18/97
J-10.10-03……6/3/15
J-10.15-01.....6/11/14
J-10.16-00…….6/3/15
J-10.17-00…….6/3/15
J-10.18-00…….6/3/15
J-10.20-00……..6/3/15
J-10.21-00……..6/3/15
J-10.22-00.....5/29/13
J-15.10-01.....6/11/14
J-15.15-02……7/10/15
J-20.10-03.....6/30/14
J-20.11-02.....6/30/14
J-20.15-03.....6/30/14
J-20.16-02.....6/30/14
J-20.20-02.....5/20/13
J-20.26-01.....7/12/12
J-21.10-04.....6/30/14
J-21.15-01.....6/10/13
J-21.16-01.....6/10/13
J-21.17-01.....6/10/13
J-21.20-01.....6/10/13
J-22.15-02.....7/10/15
J-22.16-03.....7/10/15
J-26.10-02…..3/15/12
J-26.15-01…..5/17/12
J-26.20-00…..6/11/14
J-27.10-00…..3/15/12
J-27.15-00…..3/15/12
J-28.10-01.....5/11/11
J-28.22-00.....8/07/07
J-28.24-01.....6/3/15
J-28.26-01.....12/02/08
J-28.30-03.....6/11/14
J-28.40-02.....6/11/14
J-28.42-01.....6/11/14
J-28.43-00.....6/11/14
J-28.45-02.....6/11/14
J-28.50-02.....6/2/11
J-28.60-01.....6/2/11
J-28.70-01.....5/11/11
J-29.10-00.....6/27/11
J-29.15-00.....6/27/11
J-29.16-01.....6/20/13
J-30.10-00……6/18/15
J-40.10-03……5/20/13
J-40.20-02……6/11/14
J-40.30-03……5/20/13
J-40.35-01……5/29/13
J-40.36-01……5/20/13
J-40.37-01……5/20/13
J-40.38-01.....5/20/13
J-40.39-00……5/20/13
J-40.40-00……5/20/13
J-50.10-00…….6/3/11
J-50.11-00…….6/3/11
J-50.12-00…….6/3/11
J-50.15-00…….6/3/11
J-50.16-01……3/22/13
J-50.20-00…….6/3/11
J-50.25-00…….6/3/11
J-50.30-00…….6/3/11
J-60.05-00…….6/16/11
J-60.11-00…....5/20/13
J-60.12-00…....5/20/13
J-60.13-00…....6/16/10
J-60.14-00……6/16/10
J-75.10-02……7/10/15
J-75.20-01……7/10/15
J-75.30-02…….7/10/15
J-75.40-01……6/11/14
J-75.41-00……6/11/14
J-75.45-01……6/11/14
J-90.10-01…….6/27/11
J-90.20-01…….6/27/11
J-90.21-00……6/30/14

2

K-70.20-00.....2/15/07
K-80.10-00.....2/21/07
K-80.20-00.....12/20/06
K-80.30-00.....2/21/07
K-80.35-00.....2/21/07
K-80.37-00.....2/21/07

3

L-10.10-02.....6/21/12
L-20.10-03.....7/14/15
L-30.10-02.....6/11/14
L-40.10-02.....6/21/12
L-40.15-01.....6/16/11
L-40.20-02.....6/21/12
L-70.10-01.....5/21/08
L-70.20-01.....5/21/08

4

M-1.20-03.....6/24/14
M-1.40-02.....6/3/11
M-1.60-02.....6/3/11
M-1.80-03.....6/3/11
M-9.60-00…….2/10/09
M-11.10-01.....1/30/07
M-15.10-01.....2/6/07
M-17.10-02.....7/3/08
M-40.10-03.....6/24/14
M-40.20-00...10/12/07
M-40.30-00.....9/20/07
M-40.40-00.....9/20/07

M-2.20-03.....7/10/15
M-2.21-00……7/10/15
M-3.10-03.....6/3/11
M-3.20-02.....6/3/11
M-3.30-03.....6/3/11
M-3.40-03.....6/3/11
M-3.50-02.....6/3/11
M-5.10-02.....6/3/11
M-7.50-01.....1/30/07
M-9.50-02.....6/24/14
M-20.10-02.....6/3/11
M-20.20-02.....4/20/15
M-20.30-03.....4/20/15
M-20.40-03.....6/24/14
M-20.50-02.....6/3/11
M-24.20-02.....4/20/15
M-24.40-02.....4/20/15
M-24.50-00.....6/16/11
M-24.60-04.....6/24/14
M-40.50-00.....9/20/07
M-40.60-00.....9/20/07
M-60.10-01.....6/3/11
M-60.20-02.....6/27/11
M-65.10-02.....5/11/11
M-80.10-01.....6/3/11
M-80.20-00.....6/10/08
M-80.30-00.....6/10/08

1
2

APPENDIX A
STATE PREVAILING WAGES

State of Washington
Department of Labor & Industries
Prevailing Wage Section - Telephone 360-902-5335
PO Box 44540, Olympia, WA 98504-4540

Washington State Prevailing Wage

The PREVAILING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's wage and benefit rates must add to not less than this total. A brief description of overtime calculation requirements are provided on the Benefit Code Key.

Journey Level Prevailing Wage Rates for the Effective Date: 6/20/2016

County	Trade	Job Classification	Wage	Holiday	Overtime	Note
King	Asbestos Abatement Workers	Journey Level	$43.95	5D	1H	
King	Boilermakers	Journey Level	$64.29	5N	1C	
King	Brick Mason	Journey Level	$52.82	5A	1M	
King	Brick Mason	Pointer-Caulker-Cleaner	$52.82	5A	1M	
King	Building Service Employees	Janitor	$22.09	5S	2F	
King	Building Service Employees	Traveling Waxer/Shampooer	$22.54	5S	2F	
King	Building Service Employees	Window Cleaner (Non-Scaffold)	$23.99	5S	2F	
King	Building Service Employees	Window Cleaner (Scaffold)	$26.78	5S	2F	
King	Cabinet Makers (In Shop)	Journey Level	$22.74		1	
King	Carpenters	Acoustical Worker	$54.02	5D	4C	
King	Carpenters	Bridge, Dock And Wharf Carpenters	$54.02	5D	4C	
King	Carpenters	Carpenter	$54.02	5D	4C	
King	Carpenters	Carpenters on Stationary Tools	$54.15	5D	4C	
King	Carpenters	Creosoted Material	$54.12	5D	4C	
King	Carpenters	Floor Finisher	$54.02	5D	4C	
King	Carpenters	Floor Layer	$54.02	5D	4C	
King	Carpenters	Scaffold Erector	$54.02	5D	4C	
King	Cement Masons	Journey Level	$53.95	7A	1M	
King	Divers & Tenders	Diver	$107.22	5D	4C	8A
King	Divers & Tenders	Diver On Standby	$64.42	5D	4C	
King	Divers & Tenders	Diver Tender	$58.33	5D	4C	
King	Divers & Tenders	Surface Rcv & Rov Operator	$58.33	5D	4C	
King	Divers & Tenders	Surface Rcv & Rov Operator Tender	$54.27	5A	4C	
King	Dredge Workers	Assistant Engineer	$56.44	5D	3F	
King	Dredge Workers	Assistant Mate (Deckhand)	$56.00	5D	3F	
King	Dredge Workers	Boatmen	$56.44	5D	3F	
King	Dredge Workers	Engineer Welder	$57.51	5D	3F	
King	Dredge Workers	Leverman, Hydraulic	$58.67	5D	3F	
King	Dredge Workers	Mates	$56.44	5D	3F	

King	Dredge Workers	Oiler	$56.00	5D	3F	
King	Drywall Applicator	Journey Level	$54.02	5D	1H	
King	Drywall Tapers	Journey Level	$54.07	5P	1E	
King	Electrical Fixture Maintenance Workers	Journey Level	$27.24	5L	1E	
King	Electricians - Inside	Cable Splicer	$69.77	7C	4E	
King	Electricians - Inside	Cable Splicer (tunnel)	$74.95	7C	4E	
King	Electricians - Inside	Certified Welder	$67.41	7C	4E	
King	Electricians - Inside	Certified Welder (tunnel)	$72.37	7C	4E	
King	Electricians - Inside	Construction Stock Person	$37.94	7C	4E	
King	Electricians - Inside	Journey Level	$65.05	7C	4E	
King	Electricians - Inside	Journey Level (tunnel)	$69.77	7C	4E	
King	Electricians - Motor Shop	Craftsman	$15.37		1	
King	Electricians - Motor Shop	Journey Level	$14.69		1	
King	Electricians - Powerline Construction	Cable Splicer	$74.92	5A	4D	
King	Electricians - Powerline Construction	Certified Line Welder	$65.71	5A	4D	
King	Electricians - Powerline Construction	Groundperson	$44.12	5A	4D	
King	Electricians - Powerline Construction	Heavy Line Equipment Operator	$65.71	5A	4D	
King	Electricians - Powerline Construction	Journey Level Lineperson	$65.71	5A	4D	
King	Electricians - Powerline Construction	Line Equipment Operator	$55.34	5A	4D	
King	Electricians - Powerline Construction	Pole Sprayer	$65.71	5A	4D	
King	Electricians - Powerline Construction	Powderperson	$49.16	5A	4D	
King	Electronic Technicians	Journey Level	$31.00		1	
King	Elevator Constructors	Mechanic	$85.45	7D	4A	
King	Elevator Constructors	Mechanic In Charge	$92.35	7D	4A	
King	Fabricated Precast Concrete Products	All Classifications - In-Factory Work Only	$16.55	5B	1R	
King	Fence Erectors	Fence Erector	$15.18		1	
King	Flaggers	Journey Level	$37.26	7A	3I	
King	Glaziers	Journey Level	$56.16	7L	1Y	
King	Heat & Frost Insulators And Asbestos Workers	Journeyman	$63.18	5J	1S	
King	Heating Equipment Mechanics	Journey Level	$72.83	7F	1E	
King	Hod Carriers & Mason Tenders	Journey Level	$45.32	7A	3I	
King	Industrial Power Vacuum Cleaner	Journey Level	$9.47		1	
King	Inland Boatmen	Boat Operator	$56.78	5B	1K	
King	Inland Boatmen	Cook	$53.30	5B	1K	
King	Inland Boatmen	Deckhand	$53.30	5B	1K	
King	Inland Boatmen	Deckhand Engineer	$54.32	5B	1K	
King	Inland Boatmen	Launch Operator	$55.57	5B	1K	
King	Inland Boatmen	Mate	$55.57	5B	1K	

King	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	$31.49		1	
King	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	$11.48		1	
King	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	$24.91		1	
King	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	$19.33		1	
King	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	$20.45		1	
King	Insulation Applicators	Journey Level	$54.02	5D	4C	
King	Ironworkers	Journeyman	$63.53	7N	1O	
King	Laborers	Air, Gas Or Electric Vibrating Screed	$43.95	7A	3I	
King	Laborers	Airtrac Drill Operator	$45.32	7A	3I	
King	Laborers	Ballast Regular Machine	$43.95	7A	3I	
King	Laborers	Batch Weighman	$37.26	7A	3I	
King	Laborers	Brick Pavers	$43.95	7A	3I	
King	Laborers	Brush Cutter	$43.95	7A	3I	
King	Laborers	Brush Hog Feeder	$43.95	7A	3I	
King	Laborers	Burner	$43.95	7A	3I	
King	Laborers	Caisson Worker	$45.32	7A	3I	
King	Laborers	Carpenter Tender	$43.95	7A	3I	
King	Laborers	Caulker	$43.95	7A	3I	
King	Laborers	Cement Dumper-paving	$44.76	7A	3I	
King	Laborers	Cement Finisher Tender	$43.95	7A	3I	
King	Laborers	Change House Or Dry Shack	$43.95	7A	3I	
King	Laborers	Chipping Gun (under 30 Lbs.)	$43.95	7A	3I	
King	Laborers	Chipping Gun(30 Lbs. And Over)	$44.76	7A	3I	
King	Laborers	Choker Setter	$43.95	7A	3I	
King	Laborers	Chuck Tender	$43.95	7A	3I	
King	Laborers	Clary Power Spreader	$44.76	7A	3I	
King	Laborers	Clean-up Laborer	$43.95	7A	3I	
King	Laborers	Concrete Dumper/chute Operator	$44.76	7A	3I	
King	Laborers	Concrete Form Stripper	$43.95	7A	3I	
King	Laborers	Concrete Placement Crew	$44.76	7A	3I	
King	Laborers	Concrete Saw Operator/core Driller	$44.76	7A	3I	
King	Laborers	Crusher Feeder	$37.26	7A	3I	
King	Laborers	Curing Laborer	$43.95	7A	3I	
King	Laborers	Demolition: Wrecking & Moving (incl. Charred Material)	$43.95	7A	3I	
King	Laborers	Ditch Digger	$43.95	7A	3I	
King	Laborers	Diver	$45.32	7A	3I	

King	Laborers	Drill Operator (hydraulic,diamond)	$44.76	7A	3I	
King	Laborers	Dry Stack Walls	$43.95	7A	3I	
King	Laborers	Dump Person	$43.95	7A	3I	
King	Laborers	Epoxy Technician	$43.95	7A	3I	
King	Laborers	Erosion Control Worker	$43.95	7A	3I	
King	Laborers	Faller & Bucker Chain Saw	$44.76	7A	3I	
King	Laborers	Fine Graders	$43.95	7A	3I	
King	Laborers	Firewatch	$37.26	7A	3I	
King	Laborers	Form Setter	$43.95	7A	3I	
King	Laborers	Gabian Basket Builders	$43.95	7A	3I	
King	Laborers	General Laborer	$43.95	7A	3I	
King	Laborers	Grade Checker & Transit Person	$45.32	7A	3I	
King	Laborers	Grinders	$43.95	7A	3I	
King	Laborers	Grout Machine Tender	$43.95	7A	3I	
King	Laborers	Groutmen (pressure)including Post Tension Beams	$44.76	7A	3I	
King	Laborers	Guardrail Erector	$43.95	7A	3I	
King	Laborers	Hazardous Waste Worker (level A)	$45.32	7A	3I	
King	Laborers	Hazardous Waste Worker (level B)	$44.76	7A	3I	
King	Laborers	Hazardous Waste Worker (level C)	$43.95	7A	3I	
King	Laborers	High Scaler	$45.32	7A	3I	
King	Laborers	Jackhammer	$44.76	7A	3I	
King	Laborers	Laserbeam Operator	$44.76	7A	3I	
King	Laborers	Maintenance Person	$43.95	7A	3I	
King	Laborers	Manhole Builder-mudman	$44.76	7A	3I	
King	Laborers	Material Yard Person	$43.95	7A	3I	
King	Laborers	Motorman-dinky Locomotive	$44.76	7A	3I	
King	Laborers	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite, Shotcrete, Water Bla	$44.76	7A	3I	
King	Laborers	Pavement Breaker	$44.76	7A	3I	
King	Laborers	Pilot Car	$37.26	7A	3I	
King	Laborers	Pipe Layer Lead	$45.32	7A	3I	
King	Laborers	Pipe Layer/tailor	$44.76	7A	3I	
King	Laborers	Pipe Pot Tender	$44.76	7A	3I	
King	Laborers	Pipe Reliner	$44.76	7A	3I	
King	Laborers	Pipe Wrapper	$44.76	7A	3I	
King	Laborers	Pot Tender	$43.95	7A	3I	
King	Laborers	Powderman	$45.32	7A	3I	
King	Laborers	Powderman's Helper	$43.95	7A	3I	
King	Laborers	Power Jacks	$44.76	7A	3I	
King	Laborers	Railroad Spike Puller - Power	$44.76	7A	3I	
King	Laborers	Raker - Asphalt	$45.32	7A	3I	

King	Laborers	Re-timberman	$45.32	7A	3I	
King	Laborers	Remote Equipment Operator	$44.76	7A	3I	
King	Laborers	Rigger/signal Person	$44.76	7A	3I	
King	Laborers	Rip Rap Person	$43.95	7A	3I	
King	Laborers	Rivet Buster	$44.76	7A	3I	
King	Laborers	Rodder	$44.76	7A	3I	
King	Laborers	Scaffold Erector	$43.95	7A	3I	
King	Laborers	Scale Person	$43.95	7A	3I	
King	Laborers	Sloper (over 20")	$44.76	7A	3I	
King	Laborers	Sloper Sprayer	$43.95	7A	3I	
King	Laborers	Spreader (concrete)	$44.76	7A	3I	
King	Laborers	Stake Hopper	$43.95	7A	3I	
King	Laborers	Stock Piler	$43.95	7A	3I	
King	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	$44.76	7A	3I	
King	Laborers	Tamper (multiple & Self-propelled)	$44.76	7A	3I	
King	Laborers	Timber Person - Sewer (lagger, Shorer & Cribber)	$44.76	7A	3I	
King	Laborers	Toolroom Person (at Jobsite)	$43.95	7A	3I	
King	Laborers	Topper	$43.95	7A	3I	
King	Laborers	Track Laborer	$43.95	7A	3I	
King	Laborers	Track Liner (power)	$44.76	7A	3I	
King	Laborers	Traffic Control Laborer	$39.84	7A	3I	8R
King	Laborers	Traffic Control Supervisor	$39.84	7A	3I	8R
King	Laborers	Truck Spotter	$43.95	7A	3I	
King	Laborers	Tugger Operator	$44.76	7A	3I	
King	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	$74.29	7A	3I	8Q
King	Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	$79.32	7A	3I	8Q
King	Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	$83.00	7A	3I	8Q
King	Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	$88.70	7A	3I	8Q
King	Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	$90.82	7A	3I	8Q
King	Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	$95.92	7A	3I	8Q
King	Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	$97.82	7A	3I	8Q
King	Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	$99.82	7A	3I	8Q
King	Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	$101.82	7A	3I	8Q
King	Laborers	Tunnel Work-Guage and Lock Tender	$45.42	7A	3I	8Q
King	Laborers	Tunnel Work-Miner	$45.42	7A	3I	8Q
King	Laborers	Vibrator	$44.76	7A	3I	

King	Laborers	Vinyl Seamer	$43.95	7A	3I	
King	Laborers	Watchman	$33.86	7A	3I	
King	Laborers	Welder	$44.76	7A	3I	
King	Laborers	Well Point Laborer	$44.76	7A	3I	
King	Laborers	Window Washer/cleaner	$33.86	7A	3I	
King	Laborers - Underground Sewer & Water	General Laborer & Topman	$43.95	7A	3I	
King	Laborers - Underground Sewer & Water	Pipe Layer	$44.76	7A	3I	
King	Landscape Construction	Irrigation Or Lawn Sprinkler Installers	$13.56		1	
King	Landscape Construction	Landscape Equipment Operators Or Truck Drivers	$28.17		1	
King	Landscape Construction	Landscaping or Planting Laborers	$17.87		1	
King	Lathers	Journey Level	$54.02	5D	1H	
King	Marble Setters	Journey Level	$52.82	5A	1M	
King	Metal Fabrication (In Shop)	Fitter	$15.86		1	
King	Metal Fabrication (In Shop)	Laborer	$9.78		1	
King	Metal Fabrication (In Shop)	Machine Operator	$13.04		1	
King	Metal Fabrication (In Shop)	Painter	$11.10		1	
King	Metal Fabrication (In Shop)	Welder	$15.48		1	
King	Millwright	Journey Level	$55.52	5D	4C	
King	Modular Buildings	Cabinet Assembly	$11.56		1	
King	Modular Buildings	Electrician	$11.56		1	
King	Modular Buildings	Equipment Maintenance	$11.56		1	
King	Modular Buildings	Plumber	$11.56		1	
King	Modular Buildings	Production Worker	$9.47		1	
King	Modular Buildings	Tool Maintenance	$11.56		1	
King	Modular Buildings	Utility Person	$11.56		1	
King	Modular Buildings	Welder	$11.56		1	
King	Painters	Journey Level	$39.35	6Z	2B	
King	Pile Driver	Journey Level	$54.27	5D	4C	
King	Plasterers	Journey Level	$51.68	7Q	1R	
King	Playground & Park Equipment Installers	Journey Level	$9.47		1	
King	Plumbers & Pipefitters	Journey Level	$75.69	6Z	1G	
King	Power Equipment Operators	Asphalt Plant Operators	$56.94	7A	3C	8P
King	Power Equipment Operators	Assistant Engineer	$53.57	7A	3C	8P
King	Power Equipment Operators	Barrier Machine (zipper)	$56.44	7A	3C	8P
King	Power Equipment Operators	Batch Plant Operator, Concrete	$56.44	7A	3C	8P
King	Power Equipment Operators	Bobcat	$53.57	7A	3C	8P
King	Power Equipment Operators	Brokk - Remote Demolition Equipment	$53.57	7A	3C	8P
King	Power Equipment Operators	Brooms	$53.57	7A	3C	8P
King	Power Equipment Operators	Bump Cutter	$56.44	7A	3C	8P
King	Power Equipment Operators	Cableways	$56.94	7A	3C	8P
King	Power Equipment Operators	Chipper	$56.44	7A	3C	8P

King	Power Equipment Operators	Compressor	$53.57	7A	3C	8P
King	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	$56.94	7A	3C	8P
King	Power Equipment Operators	Concrete Finish Machine -laser Screed	$53.57	7A	3C	8P
King	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	$56.00	7A	3C	8P
King	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	$56.44	7A	3C	8P
King	Power Equipment Operators	Conveyors	$56.00	7A	3C	8P
King	Power Equipment Operators	Cranes Friction: 200 tons and over	$58.67	7A	3C	8P
King	Power Equipment Operators	Cranes: 20 Tons Through 44 Tons With Attachments	$56.44	7A	3C	8P
King	Power Equipment Operators	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	$57.51	7A	3C	8P
King	Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250’ of boom including jib with attachments	$58.10	7A	3C	8P
King	Power Equipment Operators	Cranes: 300 tons and over or 300’ of boom including jib with attachments	$58.67	7A	3C	8P
King	Power Equipment Operators	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	$56.94	7A	3C	8P
King	Power Equipment Operators	Cranes: A-frame - 10 Tons And Under	$53.57	7A	3C	8P
King	Power Equipment Operators	Cranes: Friction cranes through 199 tons	$58.10	7A	3C	8P
King	Power Equipment Operators	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	$56.00	7A	3C	8P
King	Power Equipment Operators	Crusher	$56.44	7A	3C	8P
King	Power Equipment Operators	Deck Engineer/deck Winches (power)	$56.44	7A	3C	8P
King	Power Equipment Operators	Derricks, On Building Work	$56.94	7A	3C	8P
King	Power Equipment Operators	Dozers D-9 & Under	$56.00	7A	3C	8P
King	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	$56.00	7A	3C	8P
King	Power Equipment Operators	Drilling Machine	$57.51	7A	3C	8P
King	Power Equipment Operators	Elevator And Man-lift: Permanent And Shaft Type	$53.57	7A	3C	8P
King	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	$56.44	7A	3C	8P
King	Power Equipment Operators	Forklift: 3000 Lbs And Over With Attachments	$56.00	7A	3C	8P
King	Power Equipment Operators	Forklifts: Under 3000 Lbs. With Attachments	$53.57	7A	3C	8P
King	Power Equipment Operators	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	$56.44	7A	3C	8P
King	Power Equipment Operators	Gradechecker/stakeman	$53.57	7A	3C	8P

King	Power Equipment Operators	Guardrail Punch	$56.44	7A	3C	8P
King	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	$56.94	7A	3C	8P
King	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	$56.44	7A	3C	8P
King	Power Equipment Operators	Horizontal/directional Drill Locator	$56.00	7A	3C	8P
King	Power Equipment Operators	Horizontal/directional Drill Operator	$56.44	7A	3C	8P
King	Power Equipment Operators	Hydralifts/boom Trucks Over 10 Tons	$56.00	7A	3C	8P
King	Power Equipment Operators	Hydralifts/boom Trucks, 10 Tons And Under	$53.57	7A	3C	8P
King	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	$57.51	7A	3C	8P
King	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	$56.94	7A	3C	8P
King	Power Equipment Operators	Loaders, Overhead Under 6 Yards	$56.44	7A	3C	8P
King	Power Equipment Operators	Loaders, Plant Feed	$56.44	7A	3C	8P
King	Power Equipment Operators	Loaders: Elevating Type Belt	$56.00	7A	3C	8P
King	Power Equipment Operators	Locomotives, All	$56.44	7A	3C	8P
King	Power Equipment Operators	Material Transfer Device	$56.44	7A	3C	8P
King	Power Equipment Operators	Mechanics, All (leadmen - $0.50 Per Hour Over Mechanic)	$57.51	7A	3C	8P
King	Power Equipment Operators	Motor Patrol Graders	$56.94	7A	3C	8P
King	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	$56.94	7A	3C	8P
King	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	$53.57	7A	3C	8P
King	Power Equipment Operators	Outside Hoists (elevators And Manlifts), Air Tuggers,strato	$56.00	7A	3C	8P
King	Power Equipment Operators	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	$56.44	7A	3C	8P
King	Power Equipment Operators	Overhead, Bridge Type: 100 Tons And Over	$57.51	7A	3C	8P
King	Power Equipment Operators	Overhead, Bridge Type: 45 Tons Through 99 Tons	$56.94	7A	3C	8P
King	Power Equipment Operators	Pavement Breaker	$53.57	7A	3C	8P
King	Power Equipment Operators	Pile Driver (other Than Crane Mount)	$56.44	7A	3C	8P
King	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	$56.00	7A	3C	8P
King	Power Equipment Operators	Posthole Digger, Mechanical	$53.57	7A	3C	8P
King	Power Equipment Operators	Power Plant	$53.57	7A	3C	8P
King	Power Equipment Operators	Pumps - Water	$53.57	7A	3C	8P
King	Power Equipment Operators	Quad 9, Hd 41, D10 And Over	$56.94	7A	3C	8P
King	Power Equipment Operators	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	$53.57	7A	3C	8P

King	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	$56.94	7A	3C	8P
King	Power Equipment Operators	Rigger And Bellman	$53.57	7A	3C	8P
King	Power Equipment Operators	Rigger/Signal Person, Bellman (Certified)	$56.00	7A	3C	8P
King	Power Equipment Operators	Rollagon	$56.94	7A	3C	8P
King	Power Equipment Operators	Roller, Other Than Plant Mix	$53.57	7A	3C	8P
King	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	$56.00	7A	3C	8P
King	Power Equipment Operators	Roto-mill, Roto-grinder	$56.44	7A	3C	8P
King	Power Equipment Operators	Saws - Concrete	$56.00	7A	3C	8P
King	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	$56.44	7A	3C	8P
King	Power Equipment Operators	Scrapers - Concrete & Carry All	$56.00	7A	3C	8P
King	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	$56.94	7A	3C	8P
King	Power Equipment Operators	Service Engineers - Equipment	$56.00	7A	3C	8P
King	Power Equipment Operators	Shotcrete/gunite Equipment	$53.57	7A	3C	8P
King	Power Equipment Operators	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	$56.00	7A	3C	8P
King	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	$56.94	7A	3C	8P
King	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	$56.44	7A	3C	8P
King	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	$57.51	7A	3C	8P
King	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	$58.10	7A	3C	8P
King	Power Equipment Operators	Slipform Pavers	$56.94	7A	3C	8P
King	Power Equipment Operators	Spreader, Topsider & Screedman	$56.94	7A	3C	8P
King	Power Equipment Operators	Subgrader Trimmer	$56.44	7A	3C	8P
King	Power Equipment Operators	Tower Bucket Elevators	$56.00	7A	3C	8P
King	Power Equipment Operators	Tower Crane Up To 175' In Height Base To Boom	$57.51	7A	3C	8P
King	Power Equipment Operators	Tower Crane: over 175’ through 250’ in height, base to boom	$58.10	7A	3C	8P
King	Power Equipment Operators	Tower Cranes: over 250’ in height from base to boom	$58.67	7A	3C	8P
King	Power Equipment Operators	Transporters, All Track Or Truck Type	$56.94	7A	3C	8P
King	Power Equipment Operators	Trenching Machines	$56.00	7A	3C	8P
King	Power Equipment Operators	Truck Crane Oiler/driver - 100 Tons And Over	$56.44	7A	3C	8P
King	Power Equipment Operators	Truck Crane Oiler/driver Under 100 Tons	$56.00	7A	3C	8P
King	Power Equipment Operators	Truck Mount Portable Conveyor	$56.44	7A	3C	8P
King	Power Equipment Operators	Welder	$56.94	7A	3C	8P
King	Power Equipment Operators	Wheel Tractors, Farmall Type	$53.57	7A	3C	8P
King	Power Equipment Operators	Yo Yo Pay Dozer	$56.44	7A	3C	8P

King	Power Equipment Operators-Underground Sewer & Water	Asphalt Plant Operators	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Assistant Engineer	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Barrier Machine (zipper)	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Batch Plant Operator, Concrete	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Bobcat	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Brokk - Remote Demolition Equipment	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Brooms	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Bump Cutter	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Cableways	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Chipper	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Compressor	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Concrete Finish Machine -laser Screed	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Conveyors	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Cranes Friction: 200 tons and over	$58.67	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Cranes: 20 Tons Through 44 Tons With Attachments	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	$57.51	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250’ of boom including jib with attachments	$58.10	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Cranes: 300 tons and over or 300’ of boom including jib with attachments	$58.67	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Cranes: A-frame - 10 Tons And Under	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Cranes: Friction cranes through 199 tons	$58.10	7A	3C	8P

King	Power Equipment Operators-Underground Sewer & Water	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Crusher	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Deck Engineer/deck Winches (power)	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Derricks, On Building Work	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Dozers D-9 & Under	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Drilling Machine	$57.51	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Elevator And Man-lift: Permanent And Shaft Type	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Forklift: 3000 Lbs And Over With Attachments	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Forklifts: Under 3000 Lbs. With Attachments	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Gradechecker/stakeman	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Guardrail Punch	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Locator	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Operator	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom Trucks Over 10 Tons	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom Trucks, 10 Tons And Under	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	$57.51	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Loaders, Overhead Under 6 Yards	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Loaders, Plant Feed	$56.44	7A	3C	8P
King	Power Equipment Operators-	Loaders: Elevating Type Belt	$56.00	7A	3C	8P

	Underground Sewer & Water					
King	Power Equipment Operators-Underground Sewer & Water	Locomotives, All	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Material Transfer Device	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Mechanics, All (leadmen - $0.50 Per Hour Over Mechanic)	$57.51	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Motor Patrol Graders	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Outside Hoists (elevators And Manlifts), Air Tuggers,strato	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 100 Tons And Over	$57.51	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 45 Tons Through 99 Tons	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Pavement Breaker	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Pile Driver (other Than Crane Mount)	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Posthole Digger, Mechanical	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Power Plant	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Pumps - Water	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Quad 9, Hd 41, D10 And Over	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Rigger And Bellman	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Rigger/Signal Person, Bellman (Certified)	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Rollagon	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Roller, Other Than Plant Mix	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	$56.00	7A	3C	8P

King	Power Equipment Operators-Underground Sewer & Water	Roto-mill, Roto-grinder	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Saws - Concrete	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Scrapers - Concrete & Carry All	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Service Engineers - Equipment	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Shotcrete/gunite Equipment	$53.57	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	$57.51	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	$58.10	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Slipform Pavers	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Spreader, Topsider & Screedman	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Subgrader Trimmer	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Tower Bucket Elevators	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Tower Crane Up To 175' In Height Base To Boom	$57.51	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Tower Crane: over 175’ through 250’ in height, base to boom	$58.10	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Tower Cranes: over 250’ in height from base to boom	$58.67	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Transporters, All Track Or Truck Type	$56.94	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Trenching Machines	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/driver - 100 Tons And Over	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/driver Under 100 Tons	$56.00	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Truck Mount Portable Conveyor	$56.44	7A	3C	8P
King	Power Equipment Operators-Underground Sewer & Water	Welder	$56.94	7A	3C	8P
King	Power Equipment Operators-	Wheel Tractors, Farmall Type	$53.57	7A	3C	8P

	Underground Sewer & Water					
King	Power Equipment Operators-Underground Sewer & Water	Yo Yo Pay Dozer	$56.44	7A	3C	8P
King	Power Line Clearance Tree Trimmers	Journey Level In Charge	$45.75	5A	4A	
King	Power Line Clearance Tree Trimmers	Spray Person	$43.38	5A	4A	
King	Power Line Clearance Tree Trimmers	Tree Equipment Operator	$45.75	5A	4A	
King	Power Line Clearance Tree Trimmers	Tree Trimmer	$40.84	5A	4A	
King	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	$30.74	5A	4A	
King	Refrigeration & Air Conditioning Mechanics	Journey Level	$74.36	6Z	1G	
King	Residential Brick Mason	Journey Level	$52.82	5A	1M	
King	Residential Carpenters	Journey Level	$28.20		1	
King	Residential Cement Masons	Journey Level	$22.64		1	
King	Residential Drywall Applicators	Journey Level	$40.64	5D	4C	
King	Residential Drywall Tapers	Journey Level	$54.07	5P	1E	
King	Residential Electricians	Journey Level	$30.44		1	
King	Residential Glaziers	Journey Level	$38.40	7L	1H	
King	Residential Insulation Applicators	Journey Level	$26.28		1	
King	Residential Laborers	Journey Level	$23.03		1	
King	Residential Marble Setters	Journey Level	$24.09		1	
King	Residential Painters	Journey Level	$24.46		1	
King	Residential Plumbers & Pipefitters	Journey Level	$34.69		1	
King	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	$74.36	6Z	1G	
King	Residential Sheet Metal Workers	Journey Level (Field or Shop)	$43.46	7F	1R	
King	Residential Soft Floor Layers	Journey Level	$44.11	5A	3D	
King	Residential Sprinkler Fitters (Fire Protection)	Journey Level	$42.73	5C	2R	
King	Residential Stone Masons	Journey Level	$52.82	5A	1M	
King	Residential Terrazzo Workers	Journey Level	$47.46	5A	1M	
King	Residential Terrazzo/Tile Finishers	Journey Level	$21.46		1	
King	Residential Tile Setters	Journey Level	$25.17		1	
King	Roofers	Journey Level	$46.46	5A	3H	
King	Roofers	Using Irritable Bituminous Materials	$49.46	5A	3H	
King	Sheet Metal Workers	Journey Level (Field or Shop)	$72.83	7F	1E	
King	Shipbuilding & Ship Repair	Boilermaker	$40.87	7M	1H	
King	Shipbuilding & Ship Repair	Carpenter	$40.41	7T	2B	
King	Shipbuilding & Ship Repair	Electrician	$41.43	7T	4B	
King	Shipbuilding & Ship Repair	Heat & Frost Insulator	$63.18	5J	1S	
King	Shipbuilding & Ship Repair	Laborer	$41.47	7T	4B	
King	Shipbuilding & Ship Repair	Machinist	$41.46	7T	4B	
King	Shipbuilding & Ship Repair	Operator	$41.39	7T	4B	

King	Shipbuilding & Ship Repair	Painter	$41.42	7T	4B	
King	Shipbuilding & Ship Repair	Pipefitter	$41.40	7T	4B	
King	Shipbuilding & Ship Repair	Rigger	$41.48	7T	4B	
King	Shipbuilding & Ship Repair	Sheet Metal	$41.43	7T	4B	
King	Shipbuilding & Ship Repair	Shipfitter	$41.48	7T	4B	
King	Shipbuilding & Ship Repair	Trucker	$41.32	7T	4B	
King	Shipbuilding & Ship Repair	Warehouse	$41.37	7T	4B	
King	Shipbuilding & Ship Repair	Welder/Burner	$41.48	7T	4B	
King	Sign Makers & Installers (Electrical)	Sign Installer	$22.92		1	
King	Sign Makers & Installers (Electrical)	Sign Maker	$21.36		1	
King	Sign Makers & Installers (Non-Electrical)	Sign Installer	$27.28		1	
King	Sign Makers & Installers (Non-Electrical)	Sign Maker	$33.25		1	
King	Soft Floor Layers	Journey Level	$44.11	5A	3D	
King	Solar Controls For Windows	Journey Level	$12.44		1	
King	Sprinkler Fitters (Fire Protection)	Journey Level	$70.14	5C	1X	
King	Stage Rigging Mechanics (Non Structural)	Journey Level	$13.23		1	
King	Stone Masons	Journey Level	$52.82	5A	1M	
King	Street And Parking Lot Sweeper Workers	Journey Level	$19.09		1	
King	Surveyors	Assistant Construction Site Surveyor	$56.00	7A	3C	8P
King	Surveyors	Chainman	$55.47	7A	3C	8P
King	Surveyors	Construction Site Surveyor	$56.94	7A	3C	8P
King	Telecommunication Technicians	Journey Level	$22.76		1	
King	Telephone Line Construction - Outside	Cable Splicer	$37.60	5A	2B	
King	Telephone Line Construction - Outside	Hole Digger/Ground Person	$20.79	5A	2B	
King	Telephone Line Construction - Outside	Installer (Repairer)	$36.02	5A	2B	
King	Telephone Line Construction - Outside	Special Aparatus Installer I	$37.60	5A	2B	
King	Telephone Line Construction - Outside	Special Apparatus Installer II	$36.82	5A	2B	
King	Telephone Line Construction - Outside	Telephone Equipment Operator (Heavy)	$37.60	5A	2B	
King	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	$34.94	5A	2B	
King	Telephone Line Construction - Outside	Telephone Lineperson	$34.93	5A	2B	
King	Telephone Line Construction - Outside	Television Groundperson	$19.73	5A	2B	
King	Telephone Line Construction - Outside	Television Lineperson/Installer	$26.31	5A	2B	
King	Telephone Line Construction - Outside	Television System Technician	$31.50	5A	2B	

King	Telephone Line Construction - Outside	Television Technician	$28.23	5A	2B	
King	Telephone Line Construction - Outside	Tree Trimmer	$34.93	5A	2B	
King	Terrazzo Workers	Journey Level	$47.46	5A	1M	
King	Tile Setters	Journey Level	$21.65		1	
King	Tile, Marble & Terrazzo Finishers	Finisher	$38.29	5A	1B	
King	Traffic Control Stripers	Journey Level	$43.73	7A	1K	
King	Truck Drivers	Asphalt Mix Over 16 Yards (W. WA-Joint Council 28)	$51.25	5D	3A	8L
King	Truck Drivers	Asphalt Mix To 16 Yards (W. WA-Joint Council 28)	$50.41	5D	3A	8L
King	Truck Drivers	Dump Truck & Trailer	$51.25	5D	3A	8L
King	Truck Drivers	Dump Truck (W. WA-Joint Council 28)	$50.41	5D	3A	8L
King	Truck Drivers	Other Trucks (W. WA-Joint Council 28)	$51.25	5D	3A	8L
King	Truck Drivers	Transit Mixer	$43.23		1	
King	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	$17.71		1	
King	Well Drillers & Irrigation Pump Installers	Oiler	$12.97		1	
King	Well Drillers & Irrigation Pump Installers	Well Driller	$18.00		1	